

**Commonwealth of Kentucky  
Environmental and Energy Cabinet  
Department for Environmental Protection  
Division for Air Quality  
200 Fair Oaks Lane, 1<sup>st</sup> Floor  
Frankfort, Kentucky 40601  
(502) 564-3999**

**Proposed**

**AIR QUALITY PERMIT  
Issued under 401 KAR 52:020**

**Permittee Name:** Toyota Motor Manufacturing, Kentucky, Inc.  
**Mailing Address:** 1001 Cherry Blossom Way  
Georgetown, KY 40321

**Source Name:** Same as above  
**Mailing Address:** Same as above

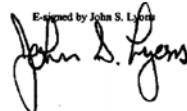
**Source Location:** Near the intersection of Cherry Blossom Way  
and Cynthiana Road

**Permit:** V-04-027 (Revision 4)  
**Agency Interest:** 7998  
**Activity:** APE20080008  
**Review Type:** Title V / PSD, Operating  
**Source ID:** 21-209-00030

**Regional Office:** Frankfort Regional Office  
643 Teton Trail, Suite B  
Frankfort, KY 40601-1758  
(502) 564-3358

**County:** Scott

**Application**  
**Complete Date:** August 23, 2008  
**Issuance Date:** July 30, 2004  
**Revision Date:** December 5, 2008  
**Expiration Date:** July 30, 2009

E-signed by John S. Lyons  


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**John S. Lyons, Director  
Division for Air Quality**

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<b>Rev #</b>	<b>Permit type</b>	<b>Log# / Activity#</b>	<b>Complete Date</b>	<b>Issuance Date</b>	<b>Summary of Action</b>
<b>----</b>	<b>Initial Issuance</b>	<b>56340 / APE2004 0004</b>	<b>04/16/04</b>	<b>07/30/04</b>	
<b>1</b>	<b>Significant Revision</b>	<b>NA / APE2004 0005</b>	<b>02/18/05</b>	<b>5/10/05</b>	<b>See Statement of Basis</b>
<b>2</b>	<b>Minor Revision</b>	<b>NA / APE2005 0005</b>	<b>09/10/05</b>	<b>08/22/07</b>	<b>Inclusion of 40 CFR 63, Subpart III requirements. Refer to Statement of Basis for other changes.</b>
<b>3</b>	<b>Minor Revision</b>	<b>NA/ APE2007 0001</b>	<b>09/17/07</b>	<b>09/21/07</b>	<b>Addition of new engine machining and assembly line in Power Train shop</b>
<b>4</b>	<b>Significant Revision</b>	<b>NA/ APE2008 0008</b>	<b>08/15/08</b>	<b>12/05/08</b>	<b>Revision of BACT limits and permit conditions for particulate emissions from Bodyweld Shop</b>

Version 8-28-2008

## **SECTION A - PERMIT AUTHORIZATION**

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and received a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE  
REGULATIONS, AND OPERATING CONDITIONS**

**ASSEMBLY#1**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Description and Applicable Regulations:**

401 KAR 59:010 and 401 KAR 51:017 apply to all affected facilities listed in the following table.

**ASSEMBLY #1, 300 BUILDING, Operations** include the following processes:

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
A01	Source Reassigned to Emission Unit A02	July 17, 1986	None	
A02	Miscellaneous Wax Coating Operations, including hinge and hub wax.	July 17, 1986	None	
A03	Glass Installation, including glass primer, body primer and window sealer.	July 17, 1986	None	401 KAR 63:002
A04	Miscellaneous Adhesive Applications (Insignificant Activities List)	July 17, 1986	None	401 KAR 63:002
A05	Fluid Filling Operations, including windshield cleaner, brake fluid, antifreeze, steering fluid, transmission fluid, refrigerants, and fuel. (Insignificant Activities List)	July 17, 1986	None	
A06	Non-Process Cleaning Activities	July 17, 1986	None	401 KAR 59:185
A07	Process Cleaning Activities, including solvent wiping. (Insignificant Activities List)	July 17, 1986	None	
A08	Process Lubrication, including hose installation. (Insignificant Activities List)	July 17, 1986	None	
A09	Testing Operations, including final line, brake tester, flutter tester and drum roll tester	July 17, 1986	None	
A10	Paint Hospital, including: (Insignificant Activities List)			401 KAR 63:002
	Sanding and Buffing	July 17, 1986	None	
	Painting Deck	July 17, 1986	None	
A11	Raw Material Supply / Storage (Insignificant Activities List)	July 17, 1986	None	401 KAR 63:002

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

<b>EMISSION UNIT</b>	<b>OPERATION</b>	<b>CONSTRUCTION COMMENCED</b>	<b>CONTROL EQUIPMENT</b>	<b>OTHER APPLICABLE REGULATIONS</b>
A12	Miscellaneous Assembly Operations, not otherwise listed (e.g., minor repairs, chassis assembly, trim installation, engine installation...). (Insignificant Activities List)	July 17, 1986	None	
A13	General Exhaust	July 17, 1986	None	

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Regulatory Details:**

401 KAR 51:017, Prevention of significant deterioration of air quality, applicable to a major stationary source or a major modification which

- (1) Commenced construction after September 22, 1982;
- (2) Emits a pollutant regulated by 42 USC 7401 to 7671q (Clean Air Act); and
- (3) Constructed in an area designated as attainment or unclassifiable for a pollutant as defined pursuant to 42 USC 7407(d)(1)(A)(ii) or (iii) (Section 107(d)(1)(A)(ii) or (iii) of the Clean Air Act). Area designations are contained in 40 CFR 81.318.

401 KAR 59:010, New Process Operations. The provisions of this regulation shall apply to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulate in this chapter, commenced on or after July 2, 1975.

401 KAR 63:002, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks incorporating by reference 40 CFR 63.3080 to 63.3176 (Subpart IIII) applicable to those items listed in paragraphs (b)(1) through (4) of section 63.3082 of Subpart IIII. (Refer to Section D).

### **1. Operating Limitations:**

The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2. Wherever practicable, the permittee should utilize work practices to minimize emissions from non-process cleaning activities. Refer to Section D.6 for requirements specific to Subpart IIII.

#### **Specific Operating Limitations for Emission Unit A06:**

**401 KAR 59:185: § 4, Cold Cleaners** (applies to batch degreasers)

Control Equipment Specifications:

- (a) The cleaner shall be equipped with a cover and shall be designed so that it can be operated with one hand.
- (b) It shall also be equipped with a drainage system such that the solvent draining from the part will return to a reservoir. If the vapor pressure is greater than 32 mm Hg, then the system must be internal.
- (c) On all containers, a label must be on or near the cleaner.
- (d) The spray, if used, must be a liquid stream, not atomized, and must be under low pressure to minimize splashing.

Operating Requirements:

- (a) If waste solvent is transferred, losses must remain at less than 20% by weight. Waste must be stored in covered containers.
- (b) The degreaser cover shall be closed when parts are not being handled in the cleaner.
- (c) Cleaned parts shall be drained until dripping stops.

Any cold cleaner shall be exempt from the control requirements set forth herein if the criteria of 401 KAR 59:185 Section 8 are met and a record of the applicability of the exemption is maintained by TMMK and submitted to the Division. If at any point in time the criteria of the exemption are not met, the cold cleaner shall be subject to the specific Operating Limitations set forth herein.



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**2. Emission Limitations:**

**401 KAR 59:010: §3** The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than twenty (20) percent opacity.

**Compliance Demonstration Method:**

Compliance with the opacity standard is assumed given the processes and activities associated with Assembly #1.

**401 KAR 59:010: §3**

The emission rate of particulate matter from an affected facility shall not exceed 2.34 pounds per hour.

**Compliance Demonstration Method:**

The total process weight, "P" as defined in 401 KAR 59:010 must reflect a period that covers a complete operation or an integral number of cycles, divided by the hours of actual process operation during such a period. This period shall not exceed 24 hours. In the case where there are no periodic monitoring requirements associated with the affected facility, continuous compliance shall be assured as long as there are no process or operational changes. The determination of the emission rate "E" in pounds per hour for compliance with 401 KAR 59:010 may also be used to demonstrate compliance with 401 KAR 51:017, except that the period allowed for the determination of "P" shall be one month.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations(Continued):**

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere of more than the following, as calculated on a monthly basis:

EMISSION UNIT	OPERATION	VOC LIMIT (lb/job)	PM LIMIT (lb/hr)
A02	Miscellaneous Wax Coating	0.28	N/A
A03	Glass Installation	0.11	N/A
A06	Non-Process Cleaning Activities	0.081	N/A
A09	Testing Operations	N/A	0.85
A13	General Exhaust	N/A	1.05

**Compliance Demonstration Method:**

VOC Value =  $\text{SUM} (U_i \times V_i \times E_i \times (1 - C_i \times F_i)) / P$ ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency,

$P$  = Production rate (number of vehicles produced)

PM Value = Measurement, when prescribed by periodic monitoring requirements table. Otherwise PM shall be calculated as follows:

PM Value =  $\text{SUM} (P/P_m \times E_i)$ ,

$P$  = Average shop production throughput,

$P_m$  = Maximum vehicle production rate

$E_i$  = PM Emission Factor (controlled) for each stack "i".

See Compliance Demonstration Method for 401 KAR 59:010, this Section.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Assembly #1 Operations of more than 92.4 tons per year of VOC emissions, based on a 12-month rolling total.

**Compliance Demonstration Method:**

VOC Value =  $\text{SUM} (U_i \times V_i \times E_i \times (1 - C_i \times F_i))$ ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations(Continued):**

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Assembly #1 Operations of more than 5.26 tons per year of PM emissions, based on a 12-month rolling total.

**Compliance Demonstration Method:**

1) Calculated from the following equation, except where testing specified (see item 2)

$$\text{PM Value} = \text{SUM} (P \times E_i),$$

P = Average shop production throughput

E<sub>i</sub> = PM Emission Factor (controlled) for “i”,

See Compliance Demonstration Method for 401 KAR 59:010, this Section.

2) Testing, see periodic monitoring requirements table.

**40 CFR 63 Subpart IIII, § 63.3091 - Emission Limits for Existing Sources**

EMISSION UNITS	NESHAP AFFECTED OPERATIONS	EMISSION LIMIT
A03	(a) Glass Bonding Primer	Refer to Section D.6 for Group Emission Limits.
A03	(b) Glass Bonding Adhesive	
A04	(c) Adhesives and sealers other than glass bonding adhesive	
A10	(d) Final Repair	

**Compliance Demonstration Method:**

Refer to Section D.6.

**3. Testing Requirements:**

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4.

**4. Specific Monitoring Requirements:**

The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit. Refer to Section D.6 for requirements specific to Subpart IIII.

**5. Specific Recordkeeping Requirements:**

All periodic monitoring records shall be maintained onsite for a period of not less than 5 years.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**5. Specific Recordkeeping Requirements (Continued):**

The permittee shall keep calendar month records of usage of all applicable raw materials. Following the end of each month, Volatile Organic Compounds (VOC) emissions and Particulate Matter (PM) emissions shall be calculated on a twelve-month rolling total basis and recorded. Following the end of each month, pounds per job limits for VOC and pounds per hour limits for PM shall be calculated and recorded. These records shall represent the most recent year and shall show compliance with VOC and PM emission limitations listed in this permit. These records shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality. Refer to Section D.6 for requirements specific to Subpart III.

The permittee shall maintain monthly records of the data specified in **2. Emission Limitations** required to calculate the emission rate of VOC in terms of pounds per job.

**6. Specific Reporting Requirements:**

The permittee shall submit summary monitoring reports every six (6) months containing monitoring information listed in Sections B.4, B.5, D.4 and D.6 of this permit. (See Section F.5 for specific reporting dates.)

**7. Specific Control Equipment Operating Conditions:**

N/A

**8. Alternate Operating Scenarios:**

N/A

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE  
REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**ASSEMBLY#2**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Description and Applicable Regulations:**

401 KAR 59:010 and 401 KAR 51:017 apply to all affected facilities listed in the following table.

**ASSEMBLY #2, 3000 BUILDING,** Operations include the following processes:

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
B01	Source Reassigned to Emission Unit B02	N/A		
B02	Miscellaneous Wax Coating Operations, including hinge and hub wax.	March 22, 1991	None	
B03	Glass Installation, including glass primer, body primer and window sealer.	March 22, 1991	None	401 KAR 63:002
B04	Miscellaneous Adhesive Applications (Insignificant Activities List)	March 22, 1991	None	401 KAR 63:002
B05	Fluid Filling Operations, including windshield cleaner, brake fluid, antifreeze, steering fluid, transmission fluid, refrigerants, and fuel. (Insignificant Activities List)	March 22, 1991	None	
B06	Non-Process Cleaning Activities	March 22, 1991	None	401 KAR 59:185
B07	Process Cleaning Activities, including solvent wiping. (Insignificant Activities List)	March 22, 1991	None	
B08	Process Lubrication, including hose installation. (Insignificant Activities List)	March 22, 1991	None	
B09	Testing Operations, including final line, brake tester and drum roll tester	March 22, 1991	None	
B10	Paint Hospital, including: (Insignificant Activities List)			401 KAR 63:002
	Sanding and Buffing	March 22, 1991	None	
	Painting Deck	March 22, 1991	None	
B11	Raw Material Supply / Storage (Insignificant Activities List)	March 22, 1991	None	401 KAR 63:002
B12	Miscellaneous Assembly Operations, not otherwise listed (e.g., minor repairs, chassis assembly, trim installation, engine installation...). (Insignificant Activities List)	March 22, 1991	None	

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
B13	General Exhaust	March 22, 1991	None	

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Regulatory Details:**

401 KAR 51:017, Prevention of significant deterioration of air quality, applicable to a major stationary source or a major modification which

- (1) Commenced construction after September 22, 1982;
- (2) Emits a pollutant regulated by 42 USC 7401 to 7671q (Clean Air Act) ; and
- (3) Constructed in an area designated as attainment or unclassifiable for a pollutant as defined pursuant to 42 USC 7407(d)(1)(A)(ii) or (iii) (Section 107(d)(1)(A)(ii) or (iii) of the Clean Air Act). Area designations are contained in 40 CFR 81.318.

401 KAR 59:010, New Process Operations. The provisions of this regulation shall apply to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulate in this chapter, commenced on or after July 2, 1975.

401 KAR 63:002, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks incorporating by reference 40 CFR 63.3080 to 63.3176 (Subpart IIII) applicable to those items listed in paragraphs (b)(1) through (4) of section 63.3082 of Subpart IIII. (Refer to Section D).

**1. Operating Limitations:**

The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2. Wherever practicable, the permittee should utilize work practices to minimize emissions from non-process cleaning activities. Refer to Section D.6 for requirements specific to Subpart IIII.

**Specific Operating Limitations for Emission Unit B06:**

**401 KAR 59:185: §4, Cold Cleaners** (applies to batch degreasers)

Control Equipment Specifications:

- (a) The cleaner shall be equipped with a cover and shall be designed so that it can be operated with one hand.
- (b) It shall also be equipped with a drainage system such that the solvent draining from the part will return to a reservoir. If the vapor pressure is greater than 32 mm Hg, then the system must be internal.
- (c) On all containers, a label must be on or near the cleaner.
- (d) The spray, if used, must be a liquid stream, not atomized, and must be under low pressure to minimize splashing.

Operating Requirements:

- (a) If waste solvent is transferred, losses must remain at less than 20% by weight. Waste must be stored in covered containers.
- (b) The degreaser cover shall be closed when parts are not being handled in the cleaner.
- (c) Cleaned parts shall be drained until dripping stops.

Any cold cleaner shall be exempt from the control requirements set forth herein if the criteria of 401 KAR 59:185 Section 8 are met and a record of the applicability of the exemption is maintained by TMMK and submitted to the Division. If at any point in time the criteria of the exemption are not met, the cold cleaner shall be subject to the specific Operating Limitations set forth herein.



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations:**

**401 KAR 59:010: §3** The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than twenty (20) percent opacity.

**Compliance Demonstration Method:**

Compliance with the opacity standard is assumed given the processes and activities associated with Assembly #2.

**401 KAR 59:010: §3**

The emission rate of particulate matter from an affected facility shall not exceed 2.34 pounds per hour.

**Compliance Demonstration Method:**

The total process weight, "P" as defined in 401 KAR 59:010 must reflect a period that covers a complete operation or an integral number of cycles, divided by the hours of actual process operation during such a period. This period shall not exceed 24 hours. In the case where there are no periodic monitoring requirements associated with the affected facility, continuous compliance shall be assured as long as there are no process or operational changes. The determination of the emission rate "E" in pounds per hour for compliance with 401 KAR 59:010 may also be used to demonstrate compliance with 401 KAR 51:017, except that the period allowed for the determination of "P" shall be one month.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere of more than the following, as calculated on a monthly basis:

EMISSION UNIT	OPERATION	VOC LIMIT (lb/job)	PM LIMIT (lb/hr)
B02	Miscellaneous Wax Coating	0.19	N/A
B03	Glass Installation	0.11	N/A
B06	Non-Process Cleaning Activities	0.081	N/A
B09	Testing Operations	N/A	0.79
B13	General Exhaust	N/A	1.08

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations(Continued):****Compliance Demonstration Method:**

VOC Value =  $\text{SUM } (U_i \times V_i \times E_i \times (1 - C_i \times F_i)) / P$ ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency,

$P$  = Production rate (number of vehicles produced)

PM Value = Measurement, when prescribed by periodic monitoring requirements table. Otherwise PM shall be calculated as follows:

PM Value =  $\text{SUM } (P/P_m \times E_i)$ ,

$P$  = Average shop production throughput,

$P_m$  = Maximum vehicle production rate

$E_i$  = PM Emission Factor (controlled) for each stack "i".

See Compliance Demonstration Method for 401 KAR 59:010, this Section.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Assembly #2 Operations of more than 61.3 tons per year of VOC emissions, based on a 12-month rolling total.

**Compliance Demonstration Method:**

VOC Value =  $\text{SUM } (U_i \times V_i \times E_i \times (1 - C_i \times F_i))$ ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Assembly #2 Operations of more than 8.76 tons per year of PM emissions, based on a 12-month rolling total.

**Compliance Demonstration Method:**

1) Calculated from the following equation, except where testing specified (see item 2)

PM Value =  $\text{SUM } (P \times E_i)$ ,

$P$  = Average shop production throughput

$E_i$  = PM Emission Factor (controlled) for "i",

See Compliance Demonstration Method for 401 KAR 59:010, this Section.

2) Testing, see periodic monitoring requirements table.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations(Continued):****40 CFR 63 Subpart III, § 63.3091 - Emission Limits for Existing Sources**

EMISSION UNITS	NESHAP AFFECTED OPERATIONS	EMISSION LIMIT
B03	(a) Glass Bonding Primer	Refer to Section D.6 for Group Emission Limits.
B03	(b) Glass Bonding Adhesive	
B04	(c) Adhesives and sealers other than glass bonding adhesive	
B10	(d) Final Repair	

**Compliance Demonstration Method:**

Refer to Section D.6.

**3. Testing Requirements:**

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4.

**4. Specific Monitoring Requirements:**

The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit. Refer to Section D.6 for requirements specific to Subpart III.

**5. Specific Recordkeeping Requirements:**

All periodic monitoring records shall be maintained onsite for a period of not less than 5 years.

The permittee shall keep calendar month records of usage of all applicable raw materials. Following the end of each month, Volatile Organic Compounds (VOC) emissions and Particulate Matter (PM) emissions shall be calculated on a twelve-month rolling total and recorded. Following the end of each month, pounds per job limits for VOC and pounds per hour limits for PM shall be calculated and recorded. These records shall represent the most recent year and shall show compliance with VOC and PM emission limitations listed in this permit. These records shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.

The permittee shall maintain monthly records of the data specified in **2. Emission Limitations** required to calculate the emission rate of VOC in terms of pounds per job.

**6. Specific Reporting Requirements:**

The permittee shall submit summary monitoring reports every six (6) months containing monitoring information listed in Sections B.4, B.5, D.4 and D.6 of this permit. (See Section F.5 for specific reporting dates.)

**7. Specific Control Equipment Operating Conditions: N/A****8. Alternate Operating Scenarios: N/A**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE  
REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**BODY OPERATIONS**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Description and Applicable Regulations:**

401 KAR 59:010 and 401 KAR 51:017 apply to all affected facilities listed in the following table.

**BODY OPERATIONS, 100/100A BUILDINGS, Operations include the following processes:**

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
C01	Die Construction (Insignificant Activities List)	March 22, 1991	None	
C02	Stamping Press Operations	March 22, 1991	None	
C03	Welding Operations, including Laser (stamping), Arc, and Resistance Welding	March 22, 1991	Dust Collectors 300 DC01 & DC02 for PM	
C04	Brazing, Grinding and Finishing Operations	March 22, 1991	None	
C05	Process Removed	N/A	N/A	
C06	Sealer and Adhesive Application, including Precure Ovens	July 17, 1986	None	401 KAR 63:002
C07	Process Removed	N/A	N/A	
C08	Small Parts Phosphate System, including De-greasing Tank, Rinse Tanks, and Phosphate Dip Tank (Line 1)	July 17, 1986	None	
C09	Small Parts Electro deposition System, Including Rinse Tanks, Dip Tank, and Oven (Line 1)	July 17, 1986	None	401 KAR 60:005 401 KAR 63:002
C10	Fuel Tank Antichip Coating (Line 1 & 2), including Booths & Ovens	March 22, 1991	Booths – Filters FTAC01 & FTAC02 for PM	401 KAR 63:002
C11	Process Lubrication (Insignificant Activities List)	March 22, 1991	None	
C12	Non-Process Cleaning Activities	July 17, 1986	None	401 KAR 59:185

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
C13	Fuel Tank Cleaning (Insignificant Activities List)	July 17, 1986	None	
C14	General Exhaust	March 22, 1991	None	

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Regulatory Details:**

401 KAR 51:017, Prevention of significant deterioration of air quality, applicable to a major stationary source or a major modification which

- (1) Commenced construction after September 22, 1982;
- (2) Emits a pollutant regulated by 42 USC 7401 to 7671q (Clean Air Act) ; and
- (3) Constructed in an area designated as attainment or unclassifiable for a pollutant as defined pursuant to 42 USC 7407(d)(1)(A)(ii) or (iii) (Section 107(d)(1)(A)(ii) or (iii) of the Clean Air Act). Area designations are contained in 40 CFR 81.318.

401 KAR 60:005, Standards of performance for automobile and light-duty truck surface coating operations incorporating by reference 40 CFR 60.390 – 60.398 (Subpart MM) applicable to each prime coat operation, guide coat operation, and each topcoat operation that begins construction, modification, or reconstruction after October 5, 1979. (Refer to Section D).

401 KAR 59:010, New Process Operations. The provisions of this regulation shall apply to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulate in this chapter, commenced on or after July 2, 1975.

401 KAR 63:002, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks incorporating by reference 40 CFR 63.3080 to 63.3176 (Subpart IIII) applicable to those items listed in paragraphs (b)(1) through (4) of section 63.3082 of Subpart IIII. (Refer to Section D).

### **1. Operating Limitations:**

The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2. Wherever practicable, the permittee should utilize work practices to minimize emissions from non-process cleaning activities. Refer to Section D.6 for requirements specific to Subpart IIII.

#### **Specific Operating Limitations for Emission Unit C03:**

- A. The maximum weld wire usage from all arc welding operations in the Body Operations Shop shall not exceed 463.6 pounds per hour based on monthly usage data.

**Compliance Demonstration Method:** The permittee shall perform semiannual primary production welder consumption audits to determine the weld wire percentage control ratio.

- B. Good operating practices shall be followed for each arc welding operation in the Body Operations shop.

**Compliance Demonstration Method:** Good operating practices shall include the following:

- i) Weld nozzle cleaning, to allow appropriate flow characteristics of shielding gas shall be performed at least daily per production week.
- ii) Visual inspections shall be performed at least once per shift on the majority of arc welds on the individual parts that make up a vehicle.

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **1. Operating Limitations (Continued):**

iii) Weld wire confirmation shall be performed for each weld wire drum change.

iv) Part jigs shall be cleaned to remove slag build-up as required to ensure proper part fit.

#### **Specific Operating Limitations for Emission Unit C12:**

**401 KAR 59:185: § 4**, Cold Cleaners (applies to batch degreasers)

Control Equipment Specifications:

(a) The cleaner shall be equipped with a cover and shall be designed so that it can be operated with one hand.

(b) It shall also be equipped with a drainage system such that the solvent draining from the part will return to a reservoir. If the vapor pressure is greater than 32 mm Hg, then the system must be internal.

(c) On all containers, a label must be on or near the cleaner.

(d) The spray, if used, must be a liquid stream, not atomized, and must be under low pressure to minimize splashing.

Operating Requirements:

(a) If waste solvent is transferred, losses must remain at less than 20% by weight. Waste must be stored in covered containers.

(b) The degreaser cover shall be closed when parts are not being handled in the cleaner.

(c) Cleaned parts shall be drained until dripping stops.

#### **Specific Operating Limitations for Emission Unit C12 (Continued):**

Any cold cleaner shall be exempt from the control requirements set forth herein if the criteria of 401 KAR 59:185 Section 8 are met and a record of the applicability of the exemption is maintained by TMMK and submitted to the Division. If at any point in time the criteria of the exemption are not met, the cold cleaner shall be subject to the specific Operating Limitations set forth herein.

### **2. Emission Limitations:**

**401 KAR 59:010: §3** The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than twenty (20) percent opacity.

#### **Compliance Demonstration Method:**

1) See Monitoring Requirements, B.4.

2) See Periodic Monitoring Requirements table.

**401 KAR 59:010: §3**

The emission rate of particulate matter from an affected facility shall not exceed 2.34 pounds per hour.

#### **Compliance Demonstration Method:**

(1) For affected facilities that use transfer efficiency in the determination of PM/PM<sub>10</sub> emissions the permittee shall:

(i) Use the transfer efficiency value specified in 40 CFR 60.393 for the application method used; or



## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **2. Emission Limitations (Continued):**

- (ii) Use a transfer efficiency value determined through testing approved by the Division.

Previous transfer efficiency tests may be accepted if the following conditions are met:

### **401 KAR 59:010 §3**

#### **Compliance Demonstration Method (Continued):**

- (a) The previous test must have been conducted using methods and conditions approved by the Division.
- (b) Either no process or equipment changes have been made since the previous test was performed or the owner or operator must be able to demonstrate that the results of the performance test, reliably demonstrate compliance despite process or equipment changes.
- (c) Either the required operating parameters were established in the previous test or sufficient data were collected in the previous test to establish the operating parameters.

(2) The total process weight, “P” as defined in 401 KAR 59:010 must reflect a period that covers a complete operation or an integral number of cycles, divided by the hours of actual process operation during such a period. This period shall not exceed 24 hours. In the case where there are no periodic monitoring requirements associated with the affected facility, continuous compliance shall be assured as long as there are no process or operational changes. The determination of the emission rate “E” in pounds per hour for compliance with 401 KAR 59:010 may also be used to demonstrate compliance with 401 KAR 51:017, except that the period allowed for the determination of “P” shall be one month.

For affected facilities with periodic monitoring requirements for particulate emissions the source shall demonstrate continuous compliance by adhering to the periodic monitoring requirements table. The source must maintain a record of deviations from “standard ranges” in the periodic monitoring requirements table and determine the particulate emissions from the deviation. The duration of the deviation shall be the period between when the “out of standard condition” was noted and when it is corrected. If an engineering evaluation utilizing a control efficiency is used to determine particulate emissions for the affected facility, the allowed control efficiency shall be zero during the deviation period unless testing is conducted to prove otherwise.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations (Continued):**

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere of more than the following, as calculated on a monthly average basis:

EMISSION UNIT	OPERATION	VOC LIMIT (lb/job)	PM LIMIT (lb/hr)
C02	Stamping Operations (All)	0.518	N/A
C03/C14	Welding Activities (all affected facilities) Line 1 & 2	N/A N/A	14.48
C04	Brazing and Grinding (all affected facilities) Line 1 & 2	N/A	0.28
C06	Adhesive/Sealer Application Line 1 Line 2	0.120 0.306	N/A
C08	Small Parts Phosphate	N/A	0.38
C09	Small Parts Electro deposition	0.041	0.115
C10	Fuel Tank Antichip Coating Line 1 Line 2	0.209 0.279	0.288 0.288
C12	Non-Process Cleaning Activities	0.270	N/A

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations (Continued):****Compliance Demonstration Method:**

VOC Value =  $\text{SUM} (U_i \times V_i \times E_i \times (1 - C_i \times F_i)) / P$ ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency,

$P$  = Production rate (number of vehicles produced)

PM Value = Measurement, when prescribed by periodic monitoring requirements table. Otherwise PM shall be calculated as follows:

PM Value =  $\text{SUM} (P/P_m \times E_i)$ ,

$P$  = Average shop production throughput,

$P_m$  = Maximum vehicle production rate

$E_i$  = PM Emission Factor (controlled) for each stack "i".

See Compliance Demonstration method for 401 KAR 59:010, this Section.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Body Operations of more than 176.1 tons per year of VOC emissions from its Line 2 operations and 399.4 tons per year from the entire Body Operations shop, based on a 12-month rolling total.

**Compliance Demonstration Method:**

VOC Value =  $\text{SUM} (U_i \times V_i \times E_i \times (1 - C_i \times F_i))$ ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Body Operations of more than 39.6 tons per year of PM emissions from the entire Body Operations shop, based on a 12-month rolling total.

**Compliance Demonstration Method:**

1) Calculated from the following equation, except where testing specified (see item 2)

PM Value =  $\text{SUM} (P \times E_i)$ ,

$P$  = Average shop production throughput

$E_i$  = PM Emission Factor (controlled) for "i",

See Compliance Demonstration Method for 401 KAR 59:010, this Section.

2) Testing, see Periodic Monitoring Requirements table.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations(Continued):****40 CFR 60 Subpart MM - 60.392:**

The permittee shall not cause the discharge into the atmosphere of more than the following, as calculated on a monthly basis:

<b>NSPS CATEGORY</b> (Affected Facilities)	<b>EMISSION LIMIT</b> (kg VOC per liter solid applied)	<b>COATINGS INCLUDED IN GROUP</b>
(a) - Primecoat Operations	0.17	C09- Electro deposition

**Compliance Demonstration Method:**

See Section D.4 and D.5

**40 CFR 63 Subpart IIII, § 63.3091 - Emission Limits for Existing Sources**

<b>EMISSION UNITS</b>	<b>NESHAP AFFECTED OPERATIONS</b>	<b>EMISSION LIMIT</b>
C06 C07 C09 C10	(a) Adhesives and sealers other than glass bonding adhesive (b) Primer-surfacer (c) Electrodeposition Primer (d) Primer Surfacer	Refer to Section D.6 for Group Emission Limits.

**Compliance Demonstration Method:**

Refer to Section D.6.

**3. Testing Requirements:**

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4.

See Section D.4 and D.5

**4. Specific Monitoring Requirements:**

The permittee shall conform to the monitoring requirements, as prescribed in its Periodic Monitoring Requirements table.

The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit. Refer to Section D.4 for requirements specific to Subpart MM. Refer to Section D.6 for requirements specific to Subpart IIII.

The permittee shall perform a qualitative visual observation of the opacity of emissions from the rooftop on a weekly basis and maintain a log of the observations. If visible emissions from a stack are seen (not including condensed water vapor within the plume), then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****4. Specific Monitoring Requirements (Continued):**

Stacks that are subject to specific periodic visible emissions monitoring are identified in the Periodic Monitoring Requirements table and are subject to the conditions specified below.

- a. The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack (s) on a weekly basis. A log shall be maintained documenting all visible emission checks for each stack. The log shall note whether or not visible emissions were seen.
- b. If no visible emissions are detected for a period of 1 month then the monitoring frequency shall be reduced from weekly to monthly.
- c. If visible emissions are detected during the monthly check, then the weekly check shall be re-instated until condition (b) is met.
- d. If during the qualitative observation, visible emissions from the stack (s) are seen (not including condensed water vapor within the plume), then a Method 9 reading shall be performed.
- e. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs. Subsequently, the requirement to perform weekly qualitative observations will be reinstated until condition (b) is met.
- f. Method 9 readings and qualitative observations shall be performed during periods of operation.
- g. If the method of operation changes for processes emitting to the atmosphere, then the requirement to perform weekly qualitative observations will be reinstated.

**5. Specific Recordkeeping Requirements:**

The permittee shall conform to the record keeping requirements, as prescribed in its Periodic Monitoring Requirements table. All periodic monitoring records shall be maintained onsite for a period of not less than 5 years.

The permittee shall keep calendar month records of usage of all applicable raw materials. Following the end of each month, Volatile Organic Compounds (VOC) emissions and Particulate Matter (PM) emissions shall be calculated on a twelve-month rolling total and recorded. Following the end of each month, pounds per job limits for VOC and pounds per hour limits for PM shall be calculated and recorded. These records shall represent the most recent year and shall show compliance with VOC and PM emission limitations listed in this permit. These records shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.

See Section D.4

- a. Records documenting the results of each opacity reading by EPA Reference Method 9 shall be maintained.
- b. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20% shall be maintained.

The permittee shall maintain monthly records of the data specified in **2. Emission Limitations** required to calculate the emission rate of VOC in terms of pounds per job.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**6. Specific Reporting Requirements:**

The permittee shall submit summary monitoring reports every six (6) months containing monitoring information listed in Sections B.4, B.5, D.4 and D.6 of this permit. (See Section F.5 for specific reporting dates.) The report shall list any “out of standard” conditions or periodic monitoring requirements, as listed in the Periodic Monitoring Requirements table below. If no “out of standard” conditions occurred, the permittee shall submit a negative report.

**7. Specific Control Equipment Operating Conditions:**

The permittee shall install, maintain, and operate its control equipment in accordance with manufacturers’ recommendations and/or good engineering practice.

**8. Alternate Operating Scenarios:**

N/A

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****BODY OPERATIONS - PERIODIC MONITORING REQUIREMENTS**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
C03	Welding Operations (ALL)	Primary Production Arc Welders	Welding Emissions	Weld Wire consumption	Weld wire percentage control ratio	Semiannual	Semiannual	N/A	N/A
C03	Welding Operations – Arc Welding Robots (Primary)	Dust Collectors (300 DC01 & DC02)	Filter Condition	Pressure Drop	Gauge	Continuous	Monthly	Annual	0.2 – 7.0 inches of water
C09	Electro deposition Prime #1	Oven	Electro coat Emissions	Opacity	Visual	Refer to Section B.4	Refer to Section B.4	N/A	< 20 Percent
C10	Fuel Tank Antichip Coating (1 & 2)	Booth Exhaust Filters WF21,WF24)	Filter Condition	Filters in Place	Visual	Weekly	Weekly	N/A	No Visible Gaps

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE  
REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**FACILITIES CONTROL**



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Description and Applicable Regulations:**

401 KAR 51:017 shall apply to all affected facilities listed in the following table.

**FACILITIES CONTROL**, Operations include the following processes:

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
D01	Utility Boilers utilizing Natural Gas or # 2 Fuel Oil, including:			
	Boiler 1 (50 MMBtu/hr)	July 17, 1986	Low NOx Burners	401 KAR 59:015
	Boiler 2 (99 MMBtu/hr)	July 17, 1986	Low NOx Burners	401 KAR 59:015
	Boiler 3 (99 MMBtu/hr)	July 17, 1986	Low NOx Burners	401 KAR 59:015
	Boiler 4 (99 MMBtu/hr)	July 17, 1986	Low NOx Burners	401 KAR 59:015
	Boiler 5 (99 MMBtu/hr)	July 17, 1986	Low NOx Burners	401 KAR 59:015
	Boiler 6 (99 MMBtu/hr)	July 17, 1986	Low NOx Burners	401 KAR 59:015
D02	Wastewater Pretreatment Facility (Insignificant Activities List)	March 22, 1991	None	
D03A	Indirect & Direct Heat Exchangers (Plant 2) > 1 MMBtu/hr & < 10 MMBtu/hr, (Natural Gas Only) (Total Capacity = 547 MMBtu/hr)	1991 – 1999	None	401 KAR 59:015
D03B	Indirect Heat Exchangers (Plant 2) > 1 MMBtu/hr & < 10 MM Btu/hr, (Natural Gas Only) (Total Capacity = 581 MMBtu/hr)	1999 – 2006	None	401 KAR 59:015
D04	Indirect & Direct Heat Exchangers (Plant 1) > 1 MMBtu/hr & < 10 MMBtu/hr, (Natural Gas Only) (Total Capacity = 487 MMBtu/hr)	1986 - 2006	None	401 KAR 59:015
D05	Cooling Tower Facilities, including primary towers and individual building towers (Insignificant Activities List)	March 22, 1991	None	

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
D06	Raw Material Storage / Supply	March 22, 1991	Gasoline and Virgin Purge – Conservation Vents Gasoline Tanks - Submerged Fill	40 CFR 60 Subpart Kb 401 KAR 59:050 401 KAR 63:002
D07	Backup Generators utilizing #2 Fuel Oil (Insignificant Activities List) Two (2) Backup Generators (6.0 MMBtu/hr each) One (1) Backup Generator (10.2 MMBtu/hr) One (1) Backup Generator (0.8 MMBtu/hr) Two (2) Backup Generators (2.4 MMBtu/hr each) One (1) Backup Generator (6.0 MMBtu/hr) Mobile Unit	August 27, 1992 July 17, 1986 July 17, 1986 2002 2003	None None None None None	
D08	Miscellaneous Combustion Sources, including:			
	Indirect Heat Exchangers $\leq$ 1 MMBtu/hr (Insignificant Activities List)	1986 - 1999	None	
D09	Non-Process Cleaning	July 17, 1986	None	401 KAR 59:185
D10	Wastewater Sludge Dryer in Building 502 Process rate equals 7500 pounds of wet sludge per batch. Equipped with four (4) 4 MMBtu/hr natural gas burners	September 2006	None	401 KAR 59:010

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Regulatory Details:**

401 KAR 51:017, Prevention of significant deterioration of air quality, applicable to a major stationary source or a major modification which

- (1) Commenced construction after September 22, 1982;
- (2) Emits a pollutant regulated by 42 USC 7401 to 7671q (Clean Air Act) ; and
- (3) Constructed in an area designated as attainment or unclassifiable for a pollutant as defined pursuant to 42 USC 7407(d)(1)(A)(ii) or (iii) (Section 107(d)(1)(A)(ii) or (iii) of the Clean Air Act). Area designations are contained in 40 CFR 81.318.

401 KAR 59:010, New Process Operations. The provisions of this regulation shall apply to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulate in this chapter, commenced on or after July 2, 1975.

401 KAR 59:015, New Indirect Heat Exchangers. The provisions of this regulation apply to each affected facility commenced on or after April 9, 1972 (affected facilities with a heat input capacity of 250 MM Btu/hr or less, with respect to particulate and sulfur dioxide emissions).

401 KAR 59:050, New storage vessels for petroleum liquids. Applicable to each affected facility with a storage capacity greater than 580 gallons and less than 10,567 gallons commenced on or after July 24, 1984.

401 KAR 63:005, Standards of Performance for Storage Vessels for Petroleum Liquids, incorporating by reference 40 CFR 60.110b to 60.117b (Subpart Kb) applicable to storage vessels for which construction, reconstruction, or modification commenced after July 23, 1984.

401 KAR 63:002, National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline) incorporating by reference 40 CFR 63.2330 to 63.2406 (Subpart EEEE).

### **1. Operating Limitations:**

The affected facilities shall be operated so as not to exceed the emission limitations in Section B.2.

#### **Specific Operating Limitations for Emission Unit D06:**

Pursuant to 401 KAR 59:050, Section (3) 2, The gasoline storage tanks, T5311, T5312, T800-B1, T800-3 and T800-4, shall be equipped with submerged fill pipes, and a vapor balance system for gasoline truck unloading. Tank trucks shall not be unloaded unless they are properly connected to the vapor balance system.

#### **Specific Operating Limitations for Emission Unit D09:**

**401 KAR 59:185: § 4, Cold Cleaners (applies to batch degreasers)**

Control Equipment Specifications:

- (a) The cleaner shall be equipped with a cover and shall be designed so that it can be operated with one hand.
- (b) It shall also be equipped with a drainage system such that the solvent draining from the part will return to a reservoir. If the vapor pressure is greater than 32 mm Hg, then the system must be internal.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****1. Operating Limitations (Continued):**

(c) On all containers, a label must be on or near the cleaner.

(d) The spray, if used, must be a liquid stream, not atomized, and must be under low pressure to minimize splashing.

Operating Requirements:

(a) If waste solvent is transferred, losses must remain at less than 20% by weight. Waste must be stored in covered containers.

(b) The degreaser cover shall be closed when parts are not being handled in the cleaner.

(c) Cleaned parts shall be drained until dripping stops.

Any cold cleaner shall be exempt from the control requirements set forth herein if the criteria of 401 KAR 59:185 Section 8 are met and a record of the applicability of the exemption is maintained by TMMK and submitted to the Division. If at any point in time the criteria of the exemption are not met, the cold cleaner shall be subject to the specific Operating Limitations set forth herein.

**2. Emission Limitations:**

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Facilities Control Operations of more than the following emissions.

<b>D01 - Utility Boilers (545 MMBTU/HR)</b>		
<b>Allowable Emission Rates (lb/MMBTU Heat Input)</b>		
<b>Pollutant</b>	<b>Natural Gas</b>	<b># 2 Oil</b>
PM	$2.86 \times 10^{-3}$	0.05
SO <sub>2</sub>	$5.71 \times 10^{-4}$	0.3
NO <sub>x</sub>	0.1	0.1
CO	$3.33 \times 10^{-2}$	$3.38 \times 10^{-2}$
VOC <sup>3</sup>	$2.67 \times 10^{-3}$	$1.35 \times 10^{-3}$
Reference Permit # C-86-117 (Revision 2)		

Fuels are limited to Natural Gas and #2 Fuel Oil. Utility Boilers will utilize low NO<sub>x</sub> burners. The sulfur content of the #2 fuel oil used in the boilers shall not exceed 0.30% by weight.

**Compliance Demonstration Method:**

a) Indirect Heat Exchangers included in Emission D01 are considered to be in compliance with the SO<sub>2</sub> standard when burning 0.3% sulfur content #2 fuel oil.

See Testing Requirements

b) Indirect Heat Exchangers included in Emission Unit D01 are considered to be in compliance with the PM, SO<sub>2</sub>, NO<sub>x</sub>, CO, VOC and opacity standards while burning natural gas.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations (Continued):**

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Facilities Control Operations (D03A) of more than the following emissions.

<b>D03 - Indirect &amp; Direct Heat Exchangers &gt; 1 MMBTU/HR &amp; &lt; 10 MMBtu/hr</b>	
<b>Plant 2 (547 MMBTU/HR)</b>	
<b>Allowable Emission Rates (Tons/Year)</b>	
<b>Pollutant</b>	<b>Natural Gas</b>
PM	10.6
SO <sub>2</sub>	0.8
NO <sub>x</sub>	139.3
CO	117.0
VOC	7.7
Reference Permit # F-99-029	

**Compliance Demonstration Method:**

See Monitoring and Record Keeping Requirements

**Specific Emission Limitations for Emission Unit D01 and D03 (Indirect Heat Exchangers Only):**

- a) Pursuant to 401 KAR 59:015, Section 4(2), emissions from each unit shall not exceed 20% opacity.

**401 KAR 59:015** § 4 (1)(b) and 5 (1)(b) The permittee shall not cause, suffer, allow or permit the emission into the open air, not more than the following:

<b>EMISSION UNIT</b>	<b>OPERATION</b>	<b>PM LIMIT (lb / MMBtu)</b>	<b>SO<sub>x</sub> LIMIT (lb / MMBtu)</b>
D03	Indirect Heat Exchangers > 1 MM Btu/hr	0.1	0.8

**Specific Emission Limitations for Indirect Heat Exchangers in Emission Unit D03:****Compliance Demonstration Method:**

The permittee may assure compliance with the particulate standard by calculating particulate emissions using the following formula.

When combusting natural gas:

Particulate emission = [(The most recent finalized AP-42 particulate matter emission factor) divided by (the heating value of the natural gas used in mmBTU / 10<sup>6</sup>scf)].

The permittee may assure compliance with the sulfur dioxide standard by calculating sulfur dioxide emissions using the following formula.

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **2. Emission Limitations (Continued):**

When combusting natural gas:

Sulfur dioxide emissions = [(The most recent finalized AP-42 sulfur dioxide emission factor) divided by (Heating value of the natural gas used in mmBTU /10<sup>6</sup> scf)].

#### **Specific Emission Limitations for the Wastewater Sludge Dryer, Emission Unit D10:**

**401 KAR 59:010: §3** The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than twenty (20) percent opacity.

#### **Compliance Demonstration Method:**

- 1) See Monitoring Requirements, B.4.
- 2) See Periodic Monitoring Requirements table.

#### **401 KAR 59:010: §3**

The emission rate of particulate matter from an affected facility shall not exceed 3.45 pounds per hour.

**Compliance Demonstration Method:** Compliance with the mass standard is assumed when the opacity standard is met unless testing is required.

### **3. Testing Requirements:**

#### **Specific Testing Requirements for each Utility Boiler in Emission Unit D01:**

- a. When fuel oil is combusted, the permittee shall determine the opacity of emissions from the stack using U.S. EPA Reference Method 9 weekly, or more frequently if requested by the Division.
- b. The permittee shall conduct an initial performance test for each stack of Emission Unit D01 for Boiler 1 and one representative of Boilers 2 through 6 that are combusting fuel oil if such usage exceeds 60 days within any consecutive twelve months period. The performance test shall consist of the following:
  1. EPA Reference Method 2A or equivalent shall be performed to determine the flow rate of stack gas.
  2. EPA Reference Method 5 or equivalent shall be performed to determine the combined pounds of PM emissions per million BTU of fuel oil burned.
  3. EPA Reference Method 7 or equivalent shall be performed to determine the pounds of NO<sub>x</sub> emissions per million BTU of fuel oil burned.
  4. EPA Reference Method 10 or equivalent shall be performed to determine the pounds of CO emissions per million BTU of fuel oil burned.
  5. EPA Reference Method 18, Method 25A, or equivalent shall be performed to determine the amount of VOC emissions per million BTU of fuel oil burned.

### **4. Specific Monitoring Requirements:**

The permittee shall conform to the monitoring requirements, as prescribed in its Periodic Monitoring Requirements table.

The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**4. Specific Monitoring Requirements (Continued):**

**Specific Monitoring Requirements for Emission Units D01 and D03:**

- a. The permittee shall monitor the volume of natural gas usage and #2 fuel oil. Following the end of each month the volume of natural gas and #2 fuel oil for each boiler specified in emission unit D01 and for each building specified in the Periodic Monitoring Requirements Table included in emission unit D03 shall be calculated on a twelve-month rolling total and recorded.
- b. The permittee shall monitor the sulfur content of fuel oil combusted. The permittee may use the certification from the fuel supplier to satisfy this requirement. The fuel supplier certification shall include the name of the oil supplier and a statement from the oil supplier that the oil complies with the specifications under the definition of fuel oil specified in the regulation.

**Specific Monitoring Requirements for Emission Unit D07:**

The permittee shall monitor the hours of operation for each back-up generator listed in Emission Unit D07.

**Specific Monitoring Requirements for Emission Unit D10:**

- a. Compliance with the opacity standard shall be determined by the permittee performing a qualitative visual observation of the opacity of emissions at the stack no less than weekly and maintaining a log of the observations. If visible emissions from the stack are seen (not including condensed water in the plume), then an inspection of the sludge dryer equipment shall be initiated and corrective action taken. If visible emissions are present after the corrective action, the sludge dryer shall be shut down and shall not operate again until repairs have been made that result in no visible emissions from the process during operation. In lieu of shutting the sludge dryer down, the permittee may determine the opacity using Reference Method 9. If the opacity limit is not exceeded, the sludge dryer may continue to operate.
- b. The gallons of wastewater sludge processed monthly shall be monitored.
- c. The usage rate of natural gas shall be monitored monthly.

**5. Specific Recordkeeping Requirements:**

The permittee shall conform to the record keeping requirements, as prescribed in its Periodic Monitoring Requirements table. All periodic monitoring records shall be maintained onsite for a period of not less than 5 years.

The permittee shall keep calendar month records of usage of all applicable raw materials. These records shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**5. Specific Recordkeeping Requirements (Continued):**

**Specific Recordkeeping Requirements for Emission Units D01 and D03:**

- a. The permittee shall maintain records of volume of natural gas and #2 fuel oil burned for each boiler specified in emission unit D01 and for each building with affected facilities included in emission unit D03. These records shall represent the most recent year. Following the end of each month, PM, SO<sub>2</sub>, NO<sub>x</sub>, CO and VOC emissions shall be calculated on a twelve-month rolling total and recorded.
- b. The permittee shall maintain quarterly records of the sulfur content of shipments of #2 fuel oil used for combustion. The permittee may use the certification from the fuel supplier to satisfy this requirement. The certification shall include the supplier's name, and a statement that the oil complies with the specifications under the fuel oil specified in the regulations.
- c. The permittee shall maintain records of the AP-42 emission factors and heating value of natural gas used in the compliance demonstration for unit D03. The compliance demonstration records shall be updated if these values change.

**Specific Recordkeeping Requirements for Emission Unit D06:**

Refer to 40 CFR 60 Subpart Kb, Section 116b.

Refer to 40 CFR 63 Subpart EEEE, Section 63.2343.

**Specific Recordkeeping Requirements for Emission Unit D07:**

The permittee shall maintain records of the hours of operation for each back-up generator listed in Emission Unit D07.

**Specific Recordkeeping Requirements for Emission Unit D10:**

- a. Records documenting corrective actions taken as a result of seeing visible emissions, including date and time of the corrective action shall be maintained.
- b. Records documenting the results of any EPA Method 9 readings performed.
- c. The permittee shall maintain records of the gallons of wastewater sludge processed monthly.
- d. The permittee shall maintain records of the volume of natural gas used monthly.

**6. Specific Reporting Requirements:**

The permittee shall submit summary monitoring reports every six (6) months containing monitoring information listed in Sections B.4 and B.5 of this permit. (See Section F.5 for specific reporting dates.) The report shall list any "out of standard" conditions or periodic monitoring requirements, as listed in the Periodic Monitoring Requirements table below. If no "out of standard" conditions occurred, the permittee shall submit a negative report.

**7. Specific Control Equipment Operating Conditions:**

The permittee shall install, maintain, and operate its control equipment in accordance with manufacturers' recommendations and/or good engineering practice.

**8. Alternate Operating Scenarios: N/A**



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****FACILITIES CONTROL - PERIODIC MONITORING REQUIREMENTS**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
D01	Boilers	#2 Fuel Oil	Sulfur Content	Sulfur Content	Analysis	Quarterly	Quarterly	N/A	0-0.3%
D01	Boilers, One (1) 50 MMBTU/hr and Five (5) 99 MMBTU/hr	Utility Boilers #2 Fuel Oil	Volume used	Gallons	N/A	Monthly	Monthly	N/A	N/A
D01	Boilers, One (1) 50 MMBTU/hr and Five (5) 99 MMBTU/hr	Utility Boilers Natural Gas	Volume used	Standard Cubic Feet (SCF)	N/A	Monthly	Monthly	N/A	N/A
D03A	Indirect Heat Exchangers >1 MMBTU (Plant 2, F-99-029 Only)	Plant 2 Natural Gas	Volume used	Standard Cubic Feet (SCF)	N/A	Monthly	Monthly	N/A	See Section B.2
D03A	Direct Heat Exchangers >1 MMBTU/hr (Plant 2, F-99-029 Only)	Plant 2 Natural Gas	Volume used	Standard Cubic Feet (SCF)	N/A	Monthly	Monthly	N/A	See Section B.2
D03B	Indirect Heat Exchangers >1 MMBTU/hr	Plant 2 Natural Gas	Volume used	Standard Cubic Feet (SCF)	N/A	Monthly	Monthly	N/A	N/A
D04	Indirect Heat Exchangers >1 MMBTU/hr (Plant 1)	Plant 1 Natural Gas	Volume used	Standard Cubic Feet (SCF)	N/A	Monthly	Monthly	N/A	N/A
D04	Direct Heat Exchangers >1 MMBTU/hr (Plant 1)	Plant 1 Natural Gas	Volume used	Standard Cubic Feet (SCF)	N/A	Monthly	Monthly	N/A	N/A
D06	Bulk / Tank Farm Storage (gasoline and virgin purge only)	Conservation Valve	Valve Function	Movement	Visual	Annual	Annual	N/A	Operational
D07	Back-up Generators	Back-up Generators	Hours of Operation per generator	Hours of Operation per generator	N/A	Monthly	Monthly	N/A	<2000 Hours per year per generator
D10	Wastewater Sludge Drying	Sludge Dryer	Sludge Dryer Emissions	Opacity	Visual	Weekly	Weekly	N/A	< 20 Percent
D10	Wastewater Sludge Drying	Sludge Dryer	Sludge	Gallons	N/A	Monthly	Monthly	N/A	N/A
D10	Wastewater Sludge Dryer	Natural gas	Volume used	Standard Cubic Feet (SCF)	N/A	Monthly	Monthly	N/A	N/A

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE  
REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**PAINT #1**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Description and Applicable Regulations:**

401 KAR 59:010 and 401 KAR 51:017 apply to all affected facilities listed in the following table.

**PAINT #1, 200 BUILDING, Operations include the following processes**

EMISSION UNIT	OPERATION <sup>1</sup>	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
E01	Phosphate System, including de-greasing tank, rinse tanks, and phosphate dip tank	July 17, 1986	None	
E02	Electro deposition Coating System, including rinse tanks, dip tank, dry sanding, and oven	July 17, 1986	Oven – Recuperative Thermal Oxidizer TT01 for VOC	401 KAR 60:005 401 KAR 63:002
E03	Metal Finishing Line, including metal assembly (Insignificant Activities List)	July 17, 1986	None	
E04	Sealer Line and Oven, including:			
	Solvent Wiping Stations	July 17, 1986	None	401 KAR 63:002
	Seam Sealer Stations (robot and manual application)	July 17, 1986	None	401KAR 63:002
	Damping Coat Area	Jan 2004	None	401 KAR 63:002
	Antichip Booth Shutdown & Relocate (rocker and wheel)	July 17, 1986	None	401 KAR 60:005 401 KAR 63:002
	PVC Booths (rocker, flange & wheel arch) (underbody and touch-up)	July 17, 1986	None	401 KAR 63:002
	Bake Oven	July 17, 1986	Regenerative Thermal Oxidizer TT01 for VOC	

1-All processes exclude non-process cleaning activities, except emission unit E13.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

EMISSION UNIT	OPERATION <sup>1</sup>	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
E05	Primer Booth and Oven, including:			
	Solvent Wiping and Blow-off	July 17, 1986	None	401 KAR 63:002
	Soft Chip	July 17, 1986	Scrubber TS03 & Filter TF02 for PM VOC Carryover to Oven Incinerator	401 KAR 60:005 401 KAR 63:002
	Exterior	July 17, 1986	Scrubber TS03 & Filter TF02 for PM VOC Carryover to Oven Incinerator	401 KAR 60:005 401 KAR 63:002
	Interior	July 17, 1986	Scrubber TS03 & Filter TF02 for PM VOC Carryover to Oven Incinerator	401 KAR 60:005 401 KAR 63:002
	Rocker Panel	July 17, 1986	Scrubber TS03 & Filter TF02 for PM VOC Carryover to Oven Incinerator	401 KAR 60:005 401 KAR 63:002
	Oven	July 17, 1986	Recuperative Thermal Oxidizer TT01 for VOC	
E06	Wet Sand Line, including wet sand and dry sand booth, re-coat dry sand booth, touch-up booth and oven	July 17, 1986	None	
E07	Topcoat Lines A, B, and C, including:			
	Solvent Wiping and Blow-off Area	July 17, 1986	None	
	All Coating Applications, Lines A, B, & C	July 17, 1986	Booth A – Filter TF03 for PM Booth B – Filter TF04 for PM Booth A – Scrubber TS07 for PM Booth B – Scrubber TS08 for PM Booth C – Scrubber TS09 for PM – Not in use VOC Carryover to Oven Incinerators	401 KAR 60:005 401 KAR 63:002

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

EMISSION UNIT	OPERATION <sup>1</sup>	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
	Bake Ovens A, B, C	July 17, 1986	Oven A – Regenerative Thermal Oxidizer TT12 for VOC Oven B – Regenerative Thermal Oxidizer TT12 for VOC Oven C – Cat Incin TI06 for VOC – Not in use	401 KAR 60:005
E08	Inspection Lines (Insignificant Activities List)	July 17, 1986	None	
E09	Blackout Coating, including grille blackout, wheelhouse blackout and windshield blackout	July 17, 1986	Grille and Wheelhouse - Scrubber TS10 for PM	401 KAR 60:005 401 KAR 63:002
E10	Moon Roof Installation (Insignificant Activities List)	July 17, 1986	None	
E11	Wax Coating, including cavity wax, hinge wax and spot wax	July 17, 1986	None	
E12	Repair Deck Operations, including ED, sealer, primer, topcoat and blackout repairs	July 17, 1986	None	401 KAR 60:005 401 KAR 63:002
E13	Non-Process Cleaning Activities, including caustic stripping, grate coating, water blasting, line purging, shot blasting, and surface cleaning	July 17, 1986	None	401 KAR 59:185
E14	Raw Material Supply Systems, including ED system supply and paint mix/supply rooms	July 17, 1986	None	401 KAR 63:002
E15	Water/Wastewater Treatment Operations, including all De-ionizing processes and sludge pool processes	July 17, 1986	None	
E16	Robot Teaching Booth (Insignificant Activities List)	July 17, 1986	None	
E17	Two Tone Masking Booth (Insignificant Activities List)	July 17, 1986	None	
E18	General Exhaust	July 17, 1986	None	

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Regulatory Details:**

401 KAR 51:017, Prevention of significant deterioration of air quality, applicable to a major stationary source or a major modification which

- (1) Commenced construction after September 22, 1982;
- (2) Emits a pollutant regulated by 42 USC 7401 to 7671q (Clean Air Act) ; and
- (3) Constructed in an area designated as attainment or unclassifiable for a pollutant as defined pursuant to 42 USC 7407(d)(1)(A)(ii) or (iii) (Section 107(d)(1)(A)(ii) or (iii) of the Clean Air Act). Area designations are contained in 40 CFR 81.318.

401 KAR 60:005, Standards of performance for automobile and light-duty truck surface coating operations incorporating by reference 40 CFR 60.390 – 60.398 (Subpart MM) applicable to each prime coat operation, guide coat operation, and each topcoat operation that begins construction, modification, or reconstruction after October 5, 1979. (See Section D).

401 KAR 59:010, New Process Operations. The provisions of this regulation shall apply to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulate in this chapter, commenced on or after July 2, 1975.

401 KAR 63:002, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks incorporating by reference 40 CFR 63.3080 to 63.3176 (Subpart IIII) applicable to those items listed in paragraphs (b)(1) through (4) of section 63.3082 of Subpart IIII. (Refer to Section D).

### **1. Operating Limitations:**

The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2. Wherever practicable, the permittee should utilize work practices to minimize emissions from non-process cleaning activities. The permittee shall install, maintain, and operate its control equipment in accordance with manufacturers' recommendations and/or good engineering practice. The permittee shall conform to the operating conditions, as prescribed in the periodic monitoring requirements table. Refer to Section D.6 for requirements specific to Subpart IIII.

#### **Specific Operating Limitations for Thermal Oxidizers:**

**A.** The average combustion chamber temperature in any 3-hour period shall not fall more than 28°C (50°F) below the combustion temperature limit established during the most recent performance test, which demonstrated compliance.

**B.** The permittee shall use the data collected during the performance test to calculate and record the average combustion temperature. This average combustion temperature is the minimum set point for the thermal oxidizer. The minimum-operating limit for thermal oxidizers is 28°C (50°F) below the minimum set point temperature.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****1. Operating Limitations(Continued):****Specific Operating Limitations for Thermal Oxidizers (Continued):****Compliance Demonstration Method:**

The permittee must monitor the temperature in the firebox of the thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs. Compliance shall be demonstrated by monitoring and recording the combustion temperature as required in the Periodic Monitoring Requirements table, averaged over 3 hours.

**Specific Operating Limitations for Catalytic Incinerators:**

**A.** The average temperature immediately before the catalyst bed in any 3-hour period shall not fall more than 28°C (50°F) below the limit established during the most recent performance test, which demonstrated compliance.

**B.** The permittee shall use the data collected during the performance test to calculate and record the average temperature just before the catalyst bed. This average temperature is the minimum set point for the catalytic incinerator. The minimum-operating limit for catalytic oxidizers is 28°C (50°F) below the minimum set point for the catalytic incinerator.

**Compliance Demonstration Method:** Compliance shall be demonstrated by monitoring and recording the temperature just before the catalyst bed as required by the Periodic Monitoring Requirements table, averaged over 3 hours.

**C.** The permittee must develop and implement an inspection and maintenance plan for its catalytic oxidizer(s). The plan must address, at a minimum, the elements specified in paragraphs (C)(i) through (C)(iii) of this section.

**(i)** Annual sampling and analysis of the catalyst activity (i.e., conversion efficiency) following the manufacturer's or catalyst supplier's recommended procedures. If problems are found during the catalyst activity test, the permittee must replace the catalyst bed or take other corrective action consistent with the manufacturer's recommendations. (An annual performance test to determine destruction efficiency is accepted in lieu of annual sampling and analysis of the catalyst activity.)

**(ii)** Monthly external inspection of the catalyst oxidizer system, including the burner assembly and fuel supply lines for problems and, as necessary, adjust the equipment to assure proper air-to-fuel mixtures.

**(iii)** Annual internal inspection of the catalyst bed to check for channeling, abrasion, and settling. If problems are found during the annual internal inspection of the catalyst, the permittee must replace the catalyst bed or take other corrective action. If the catalyst bed is replaced and is not of like or better kind and quality as the old catalyst then the permittee must conduct a new performance test to determine destruction efficiency according to Section D.3 of this permit and 40 CFR 60 Subpart A, General Provisions. If a catalyst bed is replaced and the replacement catalyst is of like or better kind and quality as the old catalyst, then a new performance test to determine destruction efficiency is not required and the permittee may continue to use the previously established operating limits for that catalytic oxidizer.

See Periodic Monitoring Requirements Table, emission units E04 and E07.

**Specific Operating Conditions for Purging Solvent Borne Solvents:**

Except for applicator nozzles/tips, coating applicator purging solvents shall be collected and retained until such time as they are shipped offsite for disposal or recycled. Waste purge solvent tanks shall be kept closed when not in use.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****1. Operating Limitations(Continued):****Specific Operating Limitations for Emission Unit E13:****401 KAR 59:185: § 4**, Cold Cleaners (applies to batch degreasers)

Control Equipment Specifications:

- (a) The cleaner shall be equipped with a cover and shall be designed so that it can be operated with one hand.
- (b) It shall also be equipped with a drainage system such that the solvent draining from the part will return to a reservoir. If the vapor pressure is greater than 32 mm Hg, then the system must be internal.
- (c) On all containers, a label must be on or near the cleaner.
- (d) The spray, if used, must be a liquid stream, not atomized, and must be under low pressure to minimize splashing.

Operating Requirements:

- (a) If waste solvent is transferred, losses must remain at less than 20% by weight. Waste must be stored in covered containers.
- (b) The degreaser cover shall be closed when parts are not being handled in the cleaner.
- (c) Cleaned parts shall be drained until dripping stops.

Any cold cleaner shall be exempt from the control requirements set forth herein if the criteria of 401 KAR 59:185 Section 8 are met and a record of the applicability of the exemption is maintained by TMMK and submitted to the Division. If at any point in time the criteria of the exemption are not met, the cold cleaner shall be subject to the specific Operating Limitations set forth herein.

**2. Emission Limitations:****401 KAR 59:010: §3** The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than twenty (20) percent opacity.**Compliance Demonstration Method:**

- 1) See Monitoring Requirements, B.4.
- 2) See periodic monitoring requirements table.

**401 KAR 59:010 §3**

Particulate emissions shall not equal or exceed the emission rate determined by the following equation:

$$E = 3.59 \times (P)^{(0.62)}$$

Where,

E = Emission rate in pounds per hour.

P = Process weight rate to the affected facility in tons per hour.

Process Weight: The total weight of all materials introduced into any affected facility which may cause any emission of particulate matter, but does not include liquid and gaseous fuel charged, combustion air, or uncombined water.

Affected Facility: The last operation preceding the emission of air contaminants, which results:



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**2. Emission Limitations (Continued):**

**Compliance Demonstration Method:**

**401 KAR 59:010 §3**

- (a) In the separation of the air contaminant from the process materials; or
- (b) In the conversion of the process materials into air contaminants, but does not include an air pollution abatement operation.

If  $P \leq 0.50$  tons per hour, then  $E = 2.34$  pounds per hour.

- (1) For affected facilities that use transfer efficiency in the determination of  $PM/PM_{10}$  emissions the permittee shall:

- (i) Use the transfer efficiency value specified in 40 CFR 60.393 for the application method used; or
- (ii) Use a transfer efficiency value determined through testing approved by the Division.

Previous transfer efficiency tests may be accepted if the following conditions are met:

- (a) The previous test must have been conducted using methods and conditions approved by the Division.
- (b) Either no process or equipment changes have been made since the previous test was performed or the owner or operator must be able to demonstrate that the results of the performance test, reliably demonstrate compliance despite process or equipment changes.
- (c) Either the required operating parameters were established in the previous test or sufficient data were collected in the previous test to establish the operating parameters.

- (2) The total process weight, "P" as defined above must reflect a period that covers a complete operation or an integral number of cycles, divided by the hours of actual process operation during such a period. This period shall not exceed 24 hours. In the case where there are no periodic monitoring requirements associated with the affected facility, continuous compliance shall be assured as long as there are no process or operational changes. The determination of the emission rate "E" in pounds per hour for compliance with 401 KAR 59:010 may also be used to demonstrate compliance with 401 KAR 51:017, except that the period allowed for the determination of "P" shall be one month.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations (Continued):****Compliance Demonstration Method (Continued):****401 KAR 59:010 §3**

For affected facilities with periodic monitoring requirements for particulate emissions the source shall demonstrate continuous compliance by adhering to the periodic monitoring requirements table. The source must maintain a record of deviations from “standard ranges” in the periodic monitoring requirements table and determine the particulate emissions from the deviation. The duration of the deviation shall be the period between when the “out of standard condition” was noted and when it is corrected. If an engineering evaluation utilizing a control efficiency is used to determine particulate emissions for the affected facility, the allowed control efficiency shall be zero during the deviation period unless testing is conducted to prove otherwise.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere of more than the following, as calculated on a monthly basis:

EMISSION UNIT	OPERATION	VOC LIMIT (lb/job)	PM LIMIT (lb/hr)
E01	Phosphate System	N/A	0.54
E02	Electro deposition System	0.185	N/A
E04	Sealer Line/Oven	1.15	4.13
E05	Primer Line/Oven	2.11	4.02
E06	Wet Sand Line/Oven	0.13	0.35
E07	Topcoat A,B,(C-Not in use) Booth/Oven	3.86	7.43
E09	Blackout Coating	0.11	0.59
E11	Wax Coating	0.27	1.33
E12	Repair Coating and Sanding	N/A	0.93
E13	Non-Process Cleaning Activities	3.09	0.26
E14	Raw Material Supply	N/A	2.23
E15	Water/Wastewater Treatment	N/A	1.63
E18	General Exhaust	N/A	1.02

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations (Continued):****Compliance Demonstration Method:**

VOC Value =  $\text{SUM } (U_i \times V_i \times E_i \times (1 - C_i \times F_i)) / P$ ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency,

$P$  = Production rate (number of vehicles produced)

PM Value = Measurement, when prescribed by periodic monitoring requirements table. Otherwise PM shall be calculated as follows:

PM Value =  $\text{SUM } (P/P_m \times E_i)$ ,

$P$  = Average shop production throughput,

$P_m$  = Maximum vehicle production rate

$E_i$  = PM Emission Factor (controlled) for each stack "i".

See Compliance Demonstration Method for 401 KAR 59:010, this Section.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Paint #1 Operations of more than 1,865 tons per year of VOC emissions, based on a 12-month rolling total.

**Compliance Demonstration Method:**

VOC Value =  $\text{SUM } (U_i \times V_i \times E_i \times (1 - C_i \times F_i))$ ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Paint #1 Operations of more than 59.1 tons per year of PM emissions, based on a 12-month rolling total.

**Compliance Demonstration Method:**

1) Calculated from the following equation, except where testing specified (see item 2)

PM Value =  $\text{SUM } (P \times E_i)$ ,

$P$  = Average shop production throughput

$E_i$  = PM Emission Factor (controlled) for "i",

See Compliance Demonstration Method for 401 KAR 59:010, this Section.

2) Testing, see periodic monitoring requirements table.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations (Continued):****40 CFR 60 Subpart MM - 60.392:**

The permittee shall not cause the discharge into the atmosphere of more than the following, as calculated on a monthly average basis:

<b>NSPS CATEGORY</b> (Affected Facilities)	<b>EMISSION LIMIT</b> (kg VOC per liter solid applied)	<b>COATINGS INCLUDED IN GROUP</b>
<b>(a)</b> - Primecoat Operations	0.17	E02 - Electro deposition
<b>(b)</b> - Guidecoat Operations	1.40	E04 - Antichip Booth E05 - Soft Chip, Interior, Exterior
<b>(c)</b> - Topcoat Operations	1.47	E05 - Doorsash and Rocker Panel Black E07 - Topcoat Solid, Base, Clear E09 - Blackouts

**Compliance Demonstration Method:**

See Section D.4

**40 CFR 63 Subpart IIII, § 63.3091 - Emission Limits for Existing Sources**

<b>EMISSION UNITS</b>	<b>NESHAP AFFECTED OPERATIONS</b>	<b>EMISSION LIMIT</b>
E02	(a) Electro deposition primer	Refer to Section D for Group Emission Limits.
E04	(b) Primer-surfacer	
E04	(c) Adhesives and sealers other than glass bonding adhesive	
E04	(d) Deadener	
E05	(e) Primer-surfacer	
E07	(f) Topcoat	
E09	(g) Topcoat	
E12	(h) Final Repair	
ALL	(i) Coatings and thinners	

**Compliance Demonstration Method:**

Refer to Section D.6.

**3. Testing Requirements:**

The permittee shall perform stack testing according to the standards and schedule specified in the Periodic Monitoring Requirements table. Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4.

See Section D.4 and D.5

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****4. Specific Monitoring Requirements:**

The permittee shall conform to the monitoring requirements, as prescribed in the Periodic Monitoring Requirements table. The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit.

Refer to Section D.4 and D.6 for requirements specific to Subparts MM and IIII.

The permittee shall perform a qualitative visual observation of the opacity of emissions from the rooftop on a weekly basis and maintain a log of the observations. If visible emissions from a stack are seen (not including condensed water vapor within the plume), then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs.

Stacks that are subject to specific periodic visible emissions monitoring are identified in the Periodic Monitoring Requirements table and are subject to the conditions specified below.

- a. The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack (s) on a weekly basis. A log shall be maintained documenting all visible emission checks for each stack. The log shall note whether or not visible emissions were seen.
- b. If no visible emissions are detected for a period of 1 month then the monitoring frequency shall be reduced from weekly to monthly.
- c. If visible emissions are detected during the monthly check, then the weekly check shall be re-instated until condition (b) is met.
- d. If during the qualitative observation, visible emissions from the stack (s) are seen (not including condensed water vapor within the plume), then a Method 9 reading shall be performed.
- e. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs. Subsequently, the requirement to perform weekly qualitative observations will be reinstated until condition (b) is met.
- f. Method 9 readings and qualitative observations shall be performed during periods of operation.
- g. If the method of operation changes for processes emitting to the atmosphere, then the requirement to perform weekly qualitative observations will be reinstated.

**Specific Monitoring Requirements for Emission Units E02, E04, E05 and E07:**

An alarm system shall be installed on emission units E02, E04, E05 and E07 which will notify the operator of the units in the event the burner temperature of the incinerator falls below indicator range as prescribed by periodic monitoring requirements table.

**5. Specific Recordkeeping Requirements:**

The permittee shall conform to the record keeping requirements, as prescribed in the Periodic Monitoring Requirements table. The permittee shall maintain monthly records of the data specified in **2. Emission Limitations** required to calculate the emission rate of VOC in terms of pounds per job.

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **5. Specific Recordkeeping Requirements (Continued):**

The permittee shall maintain annual records of the maximum material usage rates and maximum vehicle production rates for each emission unit which uses a control device to demonstrate compliance with the pounds per job emission limits for VOC specified in **2. Emission Limitations**. These records shall specify the methodology used to determine the maximum material usage rate, and must reflect the most current technology used.

Refer to Section D.4 and D.6 for requirements specific to Subparts MM and IIII.

In addition, for all required emissions control equipment, the permittee shall keep the following records:

- a. Design and/or manufacturer's specifications.
- b. Preventive maintenance records related to performance of control equipment.
- c. All periods, during normal operating conditions, where parameters listed in the periodic monitoring requirements table are "out of standard". For thermal oxidizers and catalytic incinerators, "out of standard" is defined as a confirmed three-hour period during which the average of the monitored values fails to meet the specified temperature requirements.
- d. All periods, during normal operating conditions, where emissions control equipment, required by this permit, is not operating.
- e. All periods, during normal operating conditions, where emissions control equipment, required by this permit, is bypassed.
- f. Description of operating, temperature-measuring devices (e.g., automatic strip charts, digital data acquisition systems).
- g. Data from the temperature-measuring devices (as prescribed by the periodic monitoring requirements table) and any temporary data logged manually as back up.
- h. Inspection reports and maintenance performed in response to recommendations in inspection reports.
- i. Monitoring system malfunctions.
- j. Corrective actions taken in response to "out of standard" conditions as specified in the periodic monitoring requirements table
- k. Calibration records for monitoring equipment specified in the periodic monitoring requirements table.
- l. Records documenting the results of each opacity reading by EPA Reference Method 9 shall be maintained.
- m. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20%.

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **5. Specific Recordkeeping Requirements (Continued):**

#### **Thermal Oxidizer Specific Recordkeeping Requirements:**

The permittee shall maintain records of the following information for the thermal oxidizer:

1. All 3-hour periods (during coating operations) during which the average combustion chamber temperature of the thermal oxidizer is more than 28°C (50°F) below the average combustion chamber temperature of the thermal oxidizer determined during the most recent performance test which demonstrated compliance. Each occurrence shall be considered a deviation from permit requirements. See Section F.6.
2. During all periods of operation of the thermal oxidizer in which the 3-hour average combustion chamber temperature of the thermal oxidizer is more than 28°C (50°F) below the average combustion chamber temperature of the thermal oxidizer during the most recent performance test which demonstrated compliance, or other malfunction of the thermal oxidizer, a daily log of the following information shall be kept:
  - a. Whether any air emissions were visible from the facilities associated with the thermal oxidizer.
  - b. Whether visible emissions were normal for the process.
  - c. The cause of the visible emissions.
  - d. Corrective action(s) taken shall be recorded.

#### **Catalytic Incinerator Specific Recordkeeping Requirements:**

The permittee shall maintain records of the following information for the catalytic incinerator:

1. All 3-hour periods (during coating operations) during which the average temperature immediately before the catalyst bed is more than 28°C (50°F) below the average temperature immediately before the catalyst bed determined during the most recent performance test which demonstrated compliance. Each occurrence shall be considered a deviation from permit requirements. See Section F.6.
2. All 3-hour periods (during coating operations) which the 3-hour average temperature immediately before the catalyst bed is more than 28°C (50°F) below the average temperature immediately before the catalyst bed determined during the most recent performance test which demonstrated compliance, or other malfunction of the catalytic incinerator, a daily log of the following information shall be kept:
  - a. Whether any air emissions were visible from the facilities associated with the catalytic incinerator.
  - b. Whether visible emissions were normal for the process.
  - c. The cause of the visible emissions.
  - d. The corrective action(s) taken shall be recorded.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**5. Specific Recordkeeping Requirements (Continued):**

The permittee shall keep calendar month records of usage of all applicable raw materials. Following the end of each month, Volatile Organic Compounds (VOC) emissions and Particulate Matter (PM) emissions shall be calculated on a twelve-month rolling total basis and recorded. Following the end of each month, pounds per job limits for VOC and pounds per hour limits for PM shall be calculated and recorded. These records shall represent the most recent year and shall show compliance with VOC and PM emission limitations listed in this permit. These records shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.

See Section D.4 and D.6

All records required by this permit shall be kept onsite for a minimum of 5 years.

**6. Specific Reporting Requirements:**

The permittee shall submit summary monitoring reports every six (6) months containing monitoring information listed in Sections B.4, B.5, D.4 and D.6 of this permit. (See Section F.5 for specific reporting dates.) The report shall list any “out of standard” conditions for periodic monitoring requirements, as listed in the Periodic Monitoring Requirements table below. If no “out of standard” conditions occurred, the permittee shall submit a negative report.

See Section D.4

**7. Specific Control Equipment Operating Conditions:**

See Section B.1

**8. Alternate Operating Scenarios:**

N/A



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****PAINT #1 - PERIODIC MONITORING REQUIREMENTS**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
E02/E05 & E04	Primer Surface, Sealer & Electro Deposition-Oven	Thermal Oxidizer (TT01)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes & Each Occurrence of an Alarm	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.***
E02/E05 & E04	Primer Surface, Sealer & Electro Deposition-Oven	Thermal Oxidizer (TT01)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
E02/E05 & E04	Primer Surface, Sealer & Electro Deposition-Oven	Thermal Oxidizer (TT01)	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years	Every 5 Years	Each Test	DRE > 90%
E04	Sealer-Oven	Catalytic Incinerator (TI02) – Not in use	Incinerator Collection	Entrance/Exit Hood By-Pass Damper Position (confirmation)	Visual	Weekly	Weekly	N/A	Correct Position
E04	Sealer-Oven	Catalytic Incinerator (TI02) – Not in use	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Annual	Annual	Each Test	DRE > 80%
E04	Sealer-Oven	Catalytic Incinerator (TI02) – Not in use	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.***
E04	Sealer-Oven	Catalytic Incinerator (TI02) – Not in use	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
E04	Sealer-Oven	Catalytic Incinerator (TI02) – Not in use	Destruction Efficiency	Catalytic Incinerator System	External Inspection****	Monthly	Monthly	N/A	DRE > 80%

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
E04	Sealer-Oven	Catalytic Incinerator (TI02) – Not in use	Destruction Efficiency	Catalyst Bed	Internal Inspection****	Annual	Annual	N/A	DRE > 80%
E05	Primer Booth/Oven	Entrance/ Exit Bypass Hood	Primer Emissions	Opacity	Visual	Refer to Section B.4	Refer to Section B.4	N/A	< 20 Percent
E05	Primer-Booth	Booth Scrubber (TS03)	PM Removal Efficiency	Gaps at Venturi	Visual	Weekly	Weekly	N/A	No Significant Gaps
E05	Primer-Booth	Booth Exhaust	Emission Rate	Particulate Emission	Stack Test (EPA Method 17)	Every 5 Years*	Every 5 Years*	Each Test	See Section B.2
E05	Primer-Booth	Mix Room Systems	VOC Emission	Material Usage	Material Balance	Monthly	Monthly	N/A	See VOC Limit, Section B.2
E05	Primer-Booth	Exhaust Filters (Final Stage) (TF02)	Filter Condition	Press Drop	Gauge	Continuous	Daily**	Annual	0 - 60 mm H <sub>2</sub> O
E05	Primer-Booth	Exhaust Filters (TF02)	Filter Condition	All Final Filters In Place	Visual	Monthly	Monthly	N/A	No Visible By-Pass
E07	Topcoat Booths (A, B, & C)	Mix Room Systems	VOC Emission	Material Usage	Material Balance	Monthly	Monthly	N/A	See VOC Limit, Section B.2
E07	Topcoat Booths (A & B)	Exhaust Filters (TF03, TF04)	Filter Condition	All Final Filters In Place	Visual	Monthly	Monthly	N/A	No Visible By-Pass
E07	Topcoat Booths (A & B)	Exhaust Filters (TF03, TF04)	Filter Condition	Pressure Drop	Gauge	Continuous	Daily**	Annual	0 - 60 mm H <sub>2</sub> O

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
E07	Topcoat Booths (A, B, & C)	Booth Scrubber (TS07, TS08, TS09)	PM Removal Efficiency	Gaps at Venturi	Visual	Weekly	Weekly	N/A	No Significant Gaps
E07	Topcoat Booths (A, B, & C)	Booth Exhaust	Emission Rate	Particulate Emission	Stack Test (EPA Method 17)	Every 5 Years*	Every 5 Years*	Each Test	See Section B.2
E07	Topcoat Ovens (A & B)	Thermal Incinerator (TT12)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes & Each Occurrence of an Alarm	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.***
E07	Topcoat Ovens (A & B)	Thermal Incinerator (TT12)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
E07	Topcoat Ovens (A & B)	Thermal Incinerator (TT12)	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years	Every 5 Years	Each Test	DRE > 90%
E07	Topcoat Oven (C – Not in use)	Catalytic Incinerator (TI06)	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Annual	Annual	Each Test	DRE > 90%
E07	Topcoat Oven (C – Not in use )	Catalytic Incinerator (TI06)	Incinerator Collection	Entrance/Exit Hood By-Pass Damper Position (confirmation)	Visual	Weekly	Weekly	N/A	Correct Position
E07	Topcoat Oven (C- Not in use)	Catalytic Incinerator (TI06)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes & Each Occurrence of an Alarm	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.***
E07	Topcoat Oven (C – Not in use)	Catalytic Incinerator (TI06)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
E07	Topcoat Oven (C – Not in use)	Catalytic Incinerator (TI06)	Destruction Efficiency	Catalytic Incinerator System	External Inspection****	Monthly	Monthly	N/A	DRE > 90%
E07	Topcoat Oven (C – Not in use)	Catalytic Incinerator (TI06)	Destruction Efficiency	Catalyst Bed	Internal Inspection****	Annual	Annual	N/A	DRE > 90%
E09	Blackout Coating	Booth Scrubber (TS10)	PM Removal Efficiency	Water Flow	Visual	Weekly	Weekly	N/A	No significant gaps
E13	Non-process Cleaning Activities (Purge Recovery)	Waste Purge Tank	VOC Emission Credit	Recovered Purge	Meter	Monthly	Monthly	Annual	See Permit Limit Section B.2
E13	Non-process Cleaning Activities (Purge Recovery)	Virgin Purge Tank	VOC Emission	Virgin Purge	Meter (Primary)	Monthly	Monthly	Annual	See Permit Limit Section B.2

**\*No later than year 3 of this permit.**

**\*\*“Daily” means TMMK production day; A TMMK production day consists of both first and second shifts.**

**\*\*\*Excursions from temperature standard ranges are based upon 3-hour averages. Averages of data readings need only be recorded for those 3-hour rolling periods in which an excursion occurs.**

**\*\*\*\*External inspection of the Catalytic Incinerator System consists of inspecting the burner assembly, natural gas piping system and external housing. Internal inspection of the catalyst bed consists of verifying conditions for channeling, abrasion and settling; controller calibration; and gas leak detector inspection.**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE  
REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**PAINT #2**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Description and Applicable Regulations:**

401 KAR 59:010 and 401 KAR 51:017 apply to all affected facilities listed in the following table.

**PAINT #2, 2000 BUILDING**, Operations include the following processes

EMISSION UNIT	OPERATION <sup>3</sup>	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
F01	Phosphate System, including de-greasing tank, rinse tanks, and phosphate dip tank (Insignificant Activities List)	March 22, 1991	None	
F02	Electro deposition Coating System, including rinse tanks, dip tank, dry sanding, and oven	March 22, 1991	Oven - Thermal Oxidizer TT02 for VOC	401 KAR 60:005 401 KAR 63:002
F03	Metal Finishing Line, including metal assembly (Insignificant Activities List)	March 22, 1991	None	
F04	Sealer Line and Oven, including:			
	Solvent Wiping Areas	March 22, 1991	None	401 KAR 63:002
	Seam Sealer Area (robot and manual application)	March 22, 1991	None	401 KAR 63:002
	Damping Coat Area	2004	None	401 KAR 63:002
	Antichip Booth (rocker and wheel)	March 22, 1991	None	401 KAR 60:005 401 KAR 63:002
	PVC Booths (underbody and touch-up)	March 22, 1991	None	401 KAR 63:002
	Bake Oven	March 22, 1991	Thermal Oxidizer TT05 for VOC	

<sup>3</sup> -All processes exclude non-process cleaning activities, except emission unit F13.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

EMISSION UNIT	OPERATION <sup>3</sup>	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
F05	Primer Booth and Oven, including:			
	Solvent Wiping and Blow-off	March 22, 1991	None	401 KAR 63:002
	Soft Chip	March 22, 1991	Scrubber TS19 for PM VOC Carryover to Carbon/ Thermal Oxidizer VOC Carryover to Oven Incinerator	401 KAR 60:005 401 KAR 63:002
	Exterior	March 22, 1991	Scrubber TS19 for PM Carbon TC01 for VOC ThOxidizer TT04 for VOC VOC Carryover to Oven Incinerator	401 KAR 60:005 401 KAR 63:002
	Interior	March 22, 1991	Scrubber TS19 for PM VOC Carryover to Oven Incinerator	401 KAR 60:005 401 KAR 63:002
	Doorsash and Rocker	March 22, 1991	Scrubber TS19 for PM VOC Carryover to Oven Incinerator	401 KAR 60:005 401 KAR 63:002
	Oven	March 22, 1991	Thermal Oxidizer TT05 for VOC	
F06	Wet Sand Line, including wet sand and dry sand booth, re-coat dry sand booth, touch-up booth and oven	March 22, 1991	None	
F07	Topcoat Lines A, B, and C, including:			
	Solvent Wiping and Blow-off Area	March 22, 1991	None	401 KAR 63:002

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

EMISSION UNIT	OPERATION <sup>3</sup>	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
	All Coating Applications, Lines A, B, & C	March 22, 1991	Booth A – Scrubber TS23 for PM Booth B – Scrubber TS24 for PM Booth C – Scrubber TS25 for PM Booth A – Carbon TC02 for VOC Booth B – Carbon TC03 for VOC Booth C – Carbon TC04 for VOC Booth A – ThOxidizer TT06 for VOC Booth B – ThOxidizer TT08 for VOC Booth C – ThOxidizer TT10 for VOC Booths A/B/C – VOC Carryover to Oven Incinerators	401 KAR 60:005 401 KAR 63:002
	Bake Ovens A, B, C	March 22, 1991	Thermal Oxidizer A,B,C for VOC Oven A – ThOxidizer TT07 for VOC Oven B – ThOxidizer TT09 for VOC Oven C – ThOxidizer TT11 for VOC	401 KAR 60:005 401 KAR 63:002
F08	Inspection Lines (Insignificant Activities List)	March 22, 1991	None	
F09	Blackout Coating, including grille blackout, wheelhouse blackout and windshield blackout and touch-up station	March 22, 1991	Blackout Booth - Scrubber TS26 for PM Touchup Station – Filter TF12 for PM	401 KAR 60:005 401 KAR 63:002
F10	Moon Roof Installation (Insignificant Activities List)	March 22, 1991	None	
F11	Wax Coating, including cavity wax, hinge wax and spot wax	March 22, 1991	None	
F12	Repair Deck Operations, including ED, sealer, primer, topcoat and blackout repairs	March 22, 1991	None	401 KAR 60:005 401 KAR 63:002



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

<b>EMISSION UNIT</b>	<b>OPERATION<sup>3</sup></b>	<b>CONSTRUCTION COMMENCED</b>	<b>CONTROL EQUIPMENT</b>	<b>OTHER APPLICABLE REGULATIONS</b>
F13	Non-Process Cleaning Activities, including, grate coating, water blasting, line purging, and surface cleaning	March 22, 1991	None	401 KAR 59:185
F14	Raw Material Supply Systems, including ED system supply and paint mix/supply rooms (Insignificant Activities List)	March 22, 1991	None	401 KAR 63:002
F15	Water/Wastewater Treatment Operations, including all De-ionizing processes and sludge pool processes (Insignificant Activities List)	March 22, 1991	None	
F16	Robot Teaching Booth (Insignificant Activities List)	March 22, 1991	None	
F17	Two Tone Masking Booth (Insignificant Activities List)	March 22, 1991	None	
F18	General Exhaust	March 22, 1991	None	

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Regulatory Details:**

401 KAR 51:017, Prevention of significant deterioration of air quality, applicable to a major stationary source or a major modification which

- (1) Commenced construction after September 22, 1982;
- (2) Emits a pollutant regulated by 42 USC 7401 to 7671q (Clean Air Act) ; and
- (3) Constructed in an area designated as attainment or unclassifiable for a pollutant as defined pursuant to 42 USC 7407(d)(1)(A)(ii) or (iii) (Section 107(d)(1)(A)(ii) or (iii) of the Clean Air Act). Area designations are contained in 40 CFR 81.318.

401 KAR 60:005, Standards of performance for automobile and light-duty truck surface coating operations incorporating by reference 40 CFR 60.390 – 60.398 (Subpart MM) applicable to each prime coat operation, each guide coat operation, and each topcoat operation that begins construction, modification, or reconstruction after October 5, 1979. (See Section D).

401 KAR 59:010, New Process Operations. The provisions of this regulation shall apply to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulate in this chapter, commenced on or after July 2, 1975.

401 KAR 63:002, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks incorporating by reference 40 CFR 63.3080 to 63.3176 (Subpart IIII) applicable to those items listed in paragraphs (b)(1) through (4) of section 63.3082 of Subpart IIII. (Refer to Section D).

40 CFR 64, Compliance Assurance Monitoring.

### **1. Operating Limitations:**

The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2.

Wherever practicable, the permittee should utilize work practices to minimize emissions from non-process cleaning activities.

The permittee shall install, maintain, and operate its control equipment in accordance with manufacturers' recommendations and/or good engineering practice.

The permittee shall conform to the operating conditions, as prescribed in the periodic monitoring requirements table. Refer to Section D.6 for requirements specific to Subpart IIII.

### **Specific Operating Limitations for Thermal Oxidizers:**

**A.** The average combustion chamber temperature in any 3-hour period shall not fall more than 28°C (50°F) below the combustion temperature limit established during the most recent performance test, which demonstrated compliance.

**B.** The permittee shall use the data collected during the performance test to calculate and record the average combustion temperature. This average combustion temperature is the minimum set point for the thermal oxidizer. The minimum-operating limit for thermal oxidizers is 28°C (50°F) below the minimum setpoint temperature.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****1. Operating Limitations(Continued):****Specific Operating Limitations for Thermal Oxidizers(Continued):****Compliance Demonstration Method:**

The permittee must monitor the temperature in the firebox of the thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs. The combustion temperature shall be monitored during operation. Compliance shall be demonstrated by monitoring and recording the combustion temperature as required by the periodic monitoring requirements table, averaged over 3 hours.

**Specific Operating Limitations for Carbon Wheel Concentrators:**

**A.** The permittee must keep the set point for the desorption gas inlet temperature no lower than 17°C (30°F) below the lower of that set point during the last successful performance test for the concentrator and the average desorption gas inlet temperature established during the performance test.

**B.** The permittee shall use the data collected during the performance test to calculate and record the average desorption gas inlet temperature. The minimum-operating limit for the concentrator is 17°C (30°F) below the set point gas inlet temperature established during the performance test.

**Compliance Demonstration Method:**

Compliance shall be demonstrated by monitoring and recording the desorption gas inlet temperature as required by the periodic monitoring requirements table, averaged over 3 hours.

**Specific Operating Limitations for Emission Unit F13:****401 KAR 59:185: § 4, Cold Cleaners (applies to batch degreasers)****Control Equipment Specifications:**

- (a) The cleaner shall be equipped with a cover and shall be designed so that it can be operated with one hand.
- (b) It shall also be equipped with a drainage system such that the solvent draining from the part will return to a reservoir. If the vapor pressure is greater than 32 mm Hg, then the system must be internal.
- (c) On all containers, a label must be on or near the cleaner.
- (d) The spray, if used, must be a liquid stream, not atomized, and must be under low pressure to minimize splashing.

**Operating Requirements:**

- (a) If waste solvent is transferred, losses must remain at less than 20% by weight. Waste must be stored in covered containers.
- (b) The degreaser cover shall be closed when parts are not being handled in the cleaner.
- (c) Cleaned parts shall be drained until dripping stops.

Any cold cleaner shall be exempt from the control requirements set forth herein if the criteria of 401 KAR 59:185 Section 8 are met and a record of the applicability of the exemption is maintained by TMMK and submitted to the Division. If at any point in time the criteria of the exemption are not met, the cold cleaner shall be subject to the specific Operating Limitations set forth herein.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****1. Operating Limitations(Continued):****Specific Operating Conditions for Purging Solvent Borne Solvents:**

Except for applicator nozzles/tips, coating applicator purging solvents shall be collected and retained until such time as they are shipped offsite for disposal or recycled. Waste purge solvent tanks shall be kept closed when not in use.

**2. Emission Limitations:**

**401 KAR 59:010: §3** The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than twenty (20) percent opacity.

**Compliance Demonstration Method:**

- 1) See Monitoring Requirements, B.4.
- 2) See periodic monitoring requirements table.

**401 KAR 59:010 §3**

Particulate emissions shall not equal or exceed the emission rate determined by the following equation:

$$E = 3.59 \times (P)^{(0.62)}$$

Where,

E = Emission rate is pounds per hour.

P = Process weight rate to the affected facility in tons per hour.

Process Weight: The total weight of all materials introduced into any affected facility which may cause any emission of particulate matter, but does not include liquid and gaseous fuel charged, combustion air, or uncombined water.

Affected Facility: The last operation preceding the emission of air contaminants, which results:

- (a) In the separation of the air contaminant from the process materials;  
or
- (b) In the conversion of the process materials into air contaminants, but does not include an air pollution abatement operation.

If  $P \leq 0.50$  tons per hour, then  $E = 2.34$  pounds per hour.

**Compliance Demonstration Method:**

(1) For affected facilities that use transfer efficiency in the determination of PM/PM<sub>10</sub> emissions the permittee shall:

- (i) Use the transfer efficiency value specified in 40 CFR 60.393 for the application method used; or
- (ii) Use a transfer efficiency value determined through testing approved by the Division.

Previous transfer efficiency tests may be accepted if the following conditions are met:

- (a) The previous test must have been conducted using methods and conditions approved by the Division.
- (b) Either no process or equipment changes have been made since the previous test was performed or the owner or operator must be able to demonstrate that the results of the performance test, reliably demonstrate compliance despite process or equipment changes.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**2. Emission Limitations (Continued):**

**Compliance Demonstration Method (Continued):**

**401 KAR 59:010 §3**

(c) Either the required operating parameters were established in the previous test or sufficient data were collected in the previous test to establish the operating parameters.

- (2) The total process weight, "P" as defined above must reflect a period that covers a complete operation or an integral number of cycles, divided by the hours of actual process operation during such a period. This period shall not exceed 24 hours. In the case where there are no periodic monitoring requirements associated with the affected facility, continuous compliance shall be assured as long as there are no process or operational changes. The determination of the emission rate "E" in pounds per hour for compliance with 401 KAR 59:010 may also be used to demonstrate compliance with 401 KAR 51:017, except that the period allowed for the determination of "P" shall be one month.

For affected facilities with periodic monitoring requirements for particulate emissions the source shall demonstrate continuous compliance by adhering to the periodic monitoring requirements table. The source must maintain a record of deviations from "standard ranges" in the periodic monitoring requirements table and determine the particulate emissions from the deviation. The duration of the deviation shall be the period between when the "out of standard condition" was noted and when it is corrected. If an engineering evaluation utilizing a control efficiency is used to determine particulate emissions for the affected facility, the allowed control efficiency shall be zero during the deviation period unless testing is conducted to prove otherwise.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations (Continued):**

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere of more than the following, as calculated on a monthly basis:

EMISSION UNIT	OPERATION	VOC LIMIT (lb/job)	PM LIMIT (lb/hr)
F02	Electro Dip System	0.19	0.22
F04	Sealer Line/Oven	1.15	0.89
F05	Primer Line/Oven	2.73	1.91
F06	Wet Sand Line/Oven	0.13	0.53
F07	Topcoat A,B,C Booth/Oven	3.86	7.42
F09	Blackout Coating	0.55	0.22
F11	Wax Coating	0.27	N/A
F12	Repair Coating and Sanding	N/A	0.18
F13	Non-Process Cleaning Activities	3.09	1.00
F18	General Exhaust	N/A	1.00

**Compliance Demonstration Method:**

VOC Value =  $\text{SUM} (U_i \times V_i \times E_i \times (1 - C_i \times F_i)) / P$ ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency,

$P$  = Production rate (number of vehicles produced)

PM Value = Measurement, when prescribed by periodic monitoring requirements table. Otherwise PM shall be calculated as follows:

PM Value =  $\text{SUM} (P/P_m \times E_i)$ ,

$P$  = Average shop production throughput,

$P_m$  = Maximum vehicle production rate

$E_i$  = PM Emission Factor (controlled) for each stack "i".

See Compliance Demonstration Method for 401 KAR 59:010, this Section.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations (Continued):**

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Paint #2 Operations of more than 1,571 tons per year of VOC emissions, based on a 12-month rolling total.

**Compliance Demonstration Method:**

VOC Value =  $\text{SUM} (U_i \times V_i \times E_i \times (1 - C_i \times F_i))$  ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Paint #2 Operations of more than 60.62 tons per year of PM emissions, based on a 12-month rolling total.

**Compliance Demonstration Method:**

1) Calculated from the following equation, except where testing specified

(see item 2)

PM Value =  $\text{SUM} (P \times E_i)$  ,

$P$  = Average shop production throughput

$E_i$  = PM Emission Factor (controlled) for "i",

See Compliance Demonstration Method for 401 KAR 59:010, this Section.

2) Testing, see periodic monitoring requirements table.

**40 CFR 60 Subpart MM - 60.392:**

The permittee shall not cause the discharge into the atmosphere of more than the following, as calculated on a monthly basis:

<b>NSPS CATEGORY</b> (Affected Facilities)	<b>EMISSION LIMIT</b> (kg VOC per liter solid applied)	<b>COATINGS INCLUDED IN GROUP</b>
<b>(a)</b> - Primecoat Operations	0.17	F02 - Electro deposition
<b>(b)</b> - Guidecoat Operations	1.40	F04 - Antichip Booth F05 - Soft Chip, Interior, Exterior
<b>(c)</b> - Topcoat Operations	1.47	F05 - Doorsash and Rocker Panel Black F07 - Topcoat Solid, Base, Clear F09 - Blackouts

**Compliance Demonstration Method:**

See Section D.4

## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

### 2. Emission Limitations (Continued):

#### 40 CFR 63 Subpart IIII, § 63.3091 - Emission Limits for Existing Sources

EMISSION UNITS	NESHAP AFFECTED OPERATIONS	EMISSION LIMIT
F02	(a) Electro deposition primer	Refer to Section D for Group Emission Limits.
F04	(b) Primer-surfacer	
F04	(c) Adhesives and sealers other than glass bonding adhesive	
F04	(d) Deadener	
F05	(e) Primer-surfacer	
F07	(f) Topcoat	
F09	(g) Topcoat	
F12	(h) Final Repair	
ALL	(i) Coatings and thinners	

#### Compliance Demonstration Method:

Refer to Section D.6.

### 3. Testing Requirements:

The permittee shall perform stack testing according to the standards and schedule specified in the Periodic Monitoring Requirements table. Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4. See Section D.4 and D.5

### 4. Specific Monitoring Requirements:

The permittee shall conform to the monitoring requirements, as prescribed in the Periodic Monitoring Requirements table.

The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit.

Refer to Section D.4 and D.6 for requirements specific to Subparts MM and IIII.

The permittee shall perform a qualitative visual observation of the opacity of emissions from the rooftop on a weekly basis and maintain a log of the observations. If visible emissions from a stack are seen (not including condensed water vapor within the plume), then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs.

Stacks that are subject to specific periodic visible emissions monitoring are identified in the Periodic Monitoring Requirements table and are subject to the conditions specified below.



## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **4. Specific Monitoring Requirements (Continued):**

- a. The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack (s) on a weekly basis. A log shall be maintained documenting all visible emission checks for each stack. The log shall note whether or not visible emissions were seen.
- b. If no visible emissions are detected for a period of 1 month then the monitoring frequency shall be reduced from weekly to monthly.
- c. If visible emissions are detected during the monthly check, then the weekly check shall be re-instated until condition (b) is met.
- d. If during the qualitative observation, visible emissions from the stack (s) are seen (not including condensed water vapor within the plume), then a Method 9 reading shall be performed.
- e. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs. Subsequently, the requirement to perform weekly qualitative observations will be reinstated until condition (b) is met.
- f. Method 9 readings and qualitative observations shall be performed during periods of operation.
- g. If the method of operation changes for processes emitting to the atmosphere, then the requirement to perform weekly qualitative observations will be reinstated.

### **Specific Monitoring Requirements for Emission Units F02, F04, F05 and F07:**

An alarm system shall be installed on emission units F02, F04, F05 and F07 which will notify the operator of the units in the event the burner temperature of the incinerator falls below indicator range as prescribed by periodic monitoring requirements table.

### **Specific Monitoring Requirements for Carbon Concentrators:**

The performance of the adsorbent material will be verified by examining representative samples and testing the performance (adsorbent activity) per the manufacturer's recommendation. The results shall be assessed (e.g., compared to historical results and/or results for new adsorbent) and the adsorbent shall be replaced as appropriate.

Alternatively, performance can be checked with a portable flame ionization detector (FID), photo ionization detector (PID), or other appropriate equipment or methodologies. In this case, the concentration of the adsorber outlet stream, or the percent reduction in concentration of the inlet/outlet stream measurements are compared to historical data from performance tests. The results shall be assessed and the adsorbent shall be replaced as appropriate.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****5. Specific Recordkeeping Requirements:**

The permittee shall conform to the record keeping requirements, as prescribed in the Periodic Monitoring Requirements table. The permittee shall maintain monthly records of the data specified in **2. Emission Limitations** required to calculate the emission rate of VOC in terms of pounds per job. The permittee shall maintain annual records of the maximum material usage rates and maximum vehicle production rates for each emission unit which uses a control device to demonstrate compliance with the pounds per job emission limits for VOC specified in **2. Emission Limitations**. These records shall specify the methodology used to determine the maximum material usage rate, and must reflect the most current technology used.

Refer to Section D.4 and D.6 for requirements specific to Subparts MM and IIII. In addition, for all required emissions control equipment, the permittee shall keep the following records:

- a. Design and/or manufacturer's specifications.
- b. Preventive maintenance records related to performance of control equipment.
- c. All periods, during normal operating conditions, where parameters listed in the periodic monitoring requirements table are "out of standard". For thermal oxidizers and carbon wheel concentrators, "out of standard" is defined as a confirmed three-hour period during which the average of the monitored values fails to meet the specified temperature requirements.
- d. All periods, during normal operating conditions, where emissions control equipment, required by this permit, is not operating
- e. All periods, during normal operating conditions, where emissions control equipment, required by this permit, is bypassed.
- f. Description of operating, temperature-measuring devices (e.g., automatic strip charts, digital data acquisition systems).
- g. Data from the temperature-measuring devices (as prescribed by the periodic monitoring requirements table) and any temporary data logged manually as back up.
- h. Inspection reports and maintenance performed in response to recommendations in inspection reports.
- i. Monitoring system malfunctions.
- j. Corrective actions taken in response to "out of standard" conditions as specified in the periodic monitoring requirements table.
- k. Calibration records for monitoring equipment specified in the periodic monitoring requirements table.
- l. Records documenting the results of each opacity reading by EPA Reference Method 9 shall be maintained.
- m. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20%.

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **5. Specific Recordkeeping Requirements (Continued):**

#### **Thermal Oxidizer Specific Recordkeeping Requirements:**

The permittee shall maintain records of the following information for the thermal oxidizer:

1. All 3-hour periods (during coating operations) during which the average combustion chamber temperature of the thermal oxidizer is more than 28°C (50°F) below the average combustion chamber temperature of the thermal oxidizer determined during the most recent performance test which demonstrated compliance. Each occurrence shall be considered a deviation from permit requirements. See Section F.6.
2. During all periods of operation of the thermal oxidizer in which the 3-hour average combustion chamber temperature of the thermal oxidizer is more than 28°C (50°F) below the average combustion chamber temperature of the thermal oxidizer during the most recent performance test which demonstrated compliance, or other malfunction of the thermal oxidizer, a daily log of the following information shall be kept:
  - a. Whether any air emissions were visible from the facilities associated with the thermal oxidizer.
  - b. Whether visible emissions were normal for the process.
  - c. The cause of the visible emissions.
  - d. Corrective action(s) taken shall be recorded.

#### **Carbon Wheel Concentrator Specific Recordkeeping Requirements:**

The permittee shall maintain records of the following information for the carbon wheel concentrator:

1. All periods (during coating operations) during which the 3-hour average desorption gas inlet temperature is more than 17°C (30°F) below the average desorption gas inlet temperature determined during the most recent performance test, which demonstrated compliance. Each occurrence shall be considered a deviation from permit requirements. See Section F.6.
2. During all periods of operation of the carbon wheel concentrator in which the 3-hour average desorption gas inlet temperature is more than 17°C (30°F) below the average desorption gas temperature determined during the most recent performance test which demonstrated compliance, or other malfunction of the carbon wheel concentrator, a daily log of the following information shall be kept:
  - a. Whether any air emissions were visible from the facilities associated with the carbon wheel concentrator.
  - b. Whether visible emissions were normal for the process.
  - c. The cause of the visible emissions.
  - d. Corrective action(s) taken shall be recorded.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**5. Specific Recordkeeping Requirements (Continued):**

The permittee shall keep calendar month records of usage of all applicable raw materials. Following the end of each month, Volatile Organic Compounds (VOC) emissions and Particulate Matter (PM) emissions shall be calculated on a twelve-month rolling total and recorded. Following the end of each month, pounds per job limits for VOC and pounds per hour limits for PM shall be calculated and recorded. These records shall represent the most recent year and shall show compliance with VOC and PM emission limitations listed in this permit. These records shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.

All records required by this permit shall be kept onsite for a minimum of 5 years.

**6. Specific Reporting Requirements:**

The permittee shall submit summary monitoring reports every six (6) months containing monitoring information listed in Sections B.4, B.5, D.4 and D.6 of this permit. (See Section F.5 for specific reporting dates.) The report shall list any “out of standard” conditions for periodic monitoring requirements, as listed in the Periodic Monitoring Requirements table below. If no “out of standard” conditions occurred, the permittee shall submit a negative report.

**7. Specific Control Equipment Operating Conditions:**

See Section B.1

**8. Alternate Operating Scenarios:**

N/A

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****PAINT #2 PERIODIC MONITORING REQUIREMENTS**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
F02	Electrodeposition -Oven	Oven Stacks	Electro coat Emissions	Opacity	Visual	Refer to Section B.4	Refer to Section B.4	N/A	< 20 Percent
F02	Electrodeposition -Oven	Thermal Oxidizer (TT02)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.***
F02	Electrodeposition -Oven	Thermal Oxidizer (TT02)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
F02	Electrodeposition -Oven	Thermal Oxidizer (TT02)	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years	Every 5 Years	Each Test	DRE > 93%
F04	Sealer-Oven	Thermal Oxidizer (TT03) – Not in use	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes & Each Occurrence of an Alarm	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.***
F04	Sealer-Oven	Thermal Oxidizer (TT03) – Not in use	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
F04	Sealer-Oven	Thermal Oxidizer (TT03) – Not in use	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years	Every 5 Years	Each Test	DRE > 95%
F05	Primer-Booth	Carbon System (TC01)	Destruction Efficiency	Desorption Gas Inlet Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Not More Than 17°C Below Last Compliance Test, 3 Hour Avg.***
F05	Primer-Booth	Carbon System (TC01)	Destruction Efficiency	Desorption/ Reactivation Fan Operation	Visual	Monthly	Monthly	TBD	Operating
F05	Primer-Booth	Carbon System (TC01)	Destruction Efficiency	Revolutions Per Hour (rph)	Stop watch	Annually	Annually	N/A	1.0 – 2.0 rph

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
F05	Primer-Booth	Carbon System (TC01)	Destruction Efficiency	Adsorbent Material Performance	TBD	Annually	Annually	TBD	TBD
F05	Primer-Booth	Carbon System (TC01)	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years*	Every 5 Years*	Each Test	DRE > 85%
F05	Primer-Booth	Thermal Oxidizer (TT04)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes & Each Occurrence of an Alarm	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.***
F05	Primer-Booth	Thermal Oxidizer (TT04)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
F05	Primer-Booth	Booth Scrubber (TS19)	PM Removal Efficiency	Gaps at Venturi	Visual	Weekly	Weekly	N/A	No Significant Gaps
F05	Primer-Booth	Thermal Oxidizer (TT04)	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years	Every 5 Years	Each Test	DRE > 95%
F05	Primer-Booth	Booth Exhaust	Emission Rate	Particulate Emission	Stack Test (EPA Method 17)	Every 5 Years	Every 5 Years	Each Test	See Section B.2
F05	Primer-Booth	Carbon System (TC01)	Destruction Efficiency	Wheel Rotation	Proximity Switch	Continuous	Each Occurrence of an Alarm	Annual Confirm	No Faults
F05	Primer-Booth	Carbon System (TC01)	Incinerator Collection	By-Pass Damper Position	Alarm	Continuous	Each Occurrence of an Alarm	Annual Confirm	No Faults
F05	Primer-Booth	Mix Room Systems	VOC Emission	Material Usage	Material Balance	Monthly	Monthly	N/A	See VOC Limit, Section B(2)
F04/F05	Primer-Oven	Thermal Oxidizer (TT05)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes & Each Occurrence of an Alarm	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.***

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

Emission Unit	Operation	Equipment Monitored	Characteristic Monitored	Parameter Monitored	Method or Device	Monitoring Frequency	Recording Frequency	Calibration Frequency	Standard Range
F04/F05	Primer-Oven	Thermal Oxidizer (TT05)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
F04/F05	Primer-Oven	Thermal Oxidizer (TT05)	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years	Every 5 Years	Each Test	DRE > 95%
F07	Topcoat Booths (A, B and C)	Booth Scrubber (TS23, TS24, TS25)	PM Removal Efficiency	Gaps at Venturi	Visual	Weekly	Weekly	N/A	No Significant Gaps
F07	Topcoat Booths (A, B, & C)	Thermal Oxidizer (TT06, TT08, TT10)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes & Each Occurrence of an Alarm	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.***
F07	Topcoat Booths (A, B, & C)	Thermal Oxidizer (TT06, TT08, TT10)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
F07	Topcoat Booths (A, B, & C)	Carbon System	Destruction Efficiency	Desorption Gas Inlet Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Not More Than 17°C Below Last Compliance Test, 3 Hour Avg.***
F07	Topcoat Booths (A, B, & C)	Carbon System (TC02, TC03, TC04)	Destruction Efficiency	Desorption/Reactivation Fan Operation	Visual	Monthly	Monthly	TBD	Operating
F07	Topcoat Booths (A, B)	Carbon System (TC02, TC03)	Destruction Efficiency	Revolutions Per Hour (rph)	Stopwatch	Annually	Annually	N/A	2.0 – 3.5 rph
F07	Topcoat Booth C	Carbon System TC04	Destruction Efficiency	Revolutions Per Hour (rph)	Stopwatch	Annually	Annually	N/A	1.0 – 2.0 rph
F07	Topcoat Booths (A, B, & C)	Carbon System (TC02, TC03, TC04)	Destruction Efficiency	Adsorbent Material Performance	See Section B.4	Annually	Annually	See Section B.4	See Section B.4
F07	Topcoat Booths (A, B, & C)	Carbon System (TC02, TC03, TC04)	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years*	Every 5 Years*	Each Test	DRE > 85%

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
F07	Topcoat Booths (A, B, & C)	Carbon System (TC02, TC03, TC04)	Destruction Efficiency	Wheel Rotation	Proximity Switch	Continuous	Each Occurrence of an Alarm	Annual Confirm	No Faults
F07	Topcoat Booths (A, B, & C)	Booth Exhaust	Emission Rate	Particulate Emission	Stack Test (EPA Method 17)	Every 5 Years	Every 5 Years	Each Test	See Section B.2
F07	Topcoat Booths (A, B, & C)	Mix Room Systems	VOC Emission	Material Usage	Material Balance	Monthly	Monthly	N/A	See VOC Limit, Section B.2
F07	Topcoat Booths (A, B, & C)	Carbon System (TC02, TC03, TC04)	Incinerator Collection	By-Pass Damper Position	Alarm	Continuous	Each Occurrence of an Alarm	Annual Confirm	No Faults
F07	Topcoat Booths (A, B, & C)	Thermal Oxidizer (TT06, TT08, TT10)	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years	Every 5 Years	Each Test	DRE > 95%
F07	Topcoat Ovens (A, B, & C)	Thermal Oxidizer (TT07, TT09, TT11)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes & Each Occurrence of an Alarm	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.***
F07	Topcoat Ovens (A, B, & C)	Thermal Oxidizer (TT07, TT09, TT11)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
F07	Topcoat Ovens (A, B, & C)	Thermal Oxidizer (TT07, TT09, TT11)	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years	Every 5 Years	Each Test	DRE > 95%
F09	Blackout Coating	Booth Scrubber (TS26)	PM Removal Efficiency	Pressure Drop	Gauge	Weekly	Weekly	N/A	0 – 30 psi
F13	Non-process Cleaning Activities (Purge Supply)	Virgin WB Purge Tank	VOC Emission	Virgin WB Purge	Meter (Primary)	Monthly	Monthly	Annual	See Permit Limit Section B.2



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
F13	Non-process Cleaning Activities (Purge Recovery)	Waste WB Purge Tank	VOC Emission Credit	Recovered WB Purge	Meter (Primary)	Monthly	Monthly	Annual	See Permit Limit Section B.2
F13	Non-process Cleaning Activities (Purge Recovery)	Waste SB Purge Tank	VOC Emission Credit	Recovered SB Purge	Meter (Primary)	Monthly	Monthly	Annual	See Permit Limit Section B.2
F13	Non-process Cleaning Activities (Purge Supply)	Virgin SB Purge Tank	VOC Emission	Virgin SB Purge	Meter (Primary)	Monthly	Monthly	Annual	See Permit Limit Section B.2

**\*No later than year 3 of this permit.**

**\*\*“Daily” means TMMK production day; A TMMK production day consists of both first and second shifts.**

**\*\*\*Excursions from temperature standard ranges are based upon 3 hour averages. Averages of data readings need only be recorded for those 3-hour rolling periods in which an excursion occurs.**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE  
REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**PLASTICS**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Description and Applicable Regulations:**

401 KAR 59:010 and 401 KAR 51:017 apply to all affected facilities listed in the following table.

**PLASTICS, 400/400A BUILDING**, Operations include the following processes

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
G01	Thermal Injection Molding Operations (Insignificant Activity)	March 22, 1991	None	
G02	Source Shutdown / Removed	March 22, 1991	None	
G03	Reaction Injection Molding	July 17, 1986	Fiber Feed – Filter RF13 for PM	
G04	Interior Part Painting Booths (B & C) and Ovens (B & C), including Repair Painting	March 22, 1991	Booth B – Scrubber RS02 for PM Booth C – Scrubber RS03 for PM	401 KAR 63:002
G05	Raw Material Supply Systems, including injection part and bumper painting, exterior painting, injection molding (silos), monofoam, mold release, slush molding supply and regrind (Insignificant Activities List)	March 22, 1991		401 KAR 63:002
G06	Source Shutdown / Removed	N/A	N/A	
G07	Source Reassigned to Emission Unit G22	N/A	N/A	
G08	Source Shutdown / Removed	N/A	N/A	
G09	Source Reassigned to Emission Unit G22	N/A	N/A	
G10	Source Reassigned to G22	N/A	N/A	
G11	Door Trim Molding Process, including pouring and adhesive blending/spraying	March 22, 1991	None	401 KAR 63:002
G12	Source Reassigned to Emission Unit G14	March 22, 1991	N/A	

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
G13	Slush Molding Operation, including molding, miniblasting, dry ice machine, and repair painting	March 22, 1991	System 1 – Filter RF01 for PM System 2 – Filter RF02 for PM System 3 – Filter RF03 for PM System 4 – Filter RF04 for PM	401 KAR 63:002
G14	Vacuum Forming Process (1& 2), including adhesive spraying, forming press skin feeding, trimming and oven curing	July 17, 1986	Booth 1 – Scrubber RS04 for PM Booth 2 – Scrubber RS05 for PM	401 KAR 63:002
G15	Source Removed			
G16	Source Reassigned to Emission Unit G19	N/A	N/A	
G17	Water/Wastewater Treatment Operations, including sludge pool processes	March 22, 1991	None	
G18	Source Removed	N/A	N/A	
G19	Non-Process Cleaning Activities, including paint stripping, water blasting, line purging, surface cleaning and jig cleaning	July 17, 1986 / March 22, 1991	None	401 KAR 59:185
G20	Monofoam Molding, including turntables, clamp molds, hot knife scoring / heat treating, day tanks	July 17, 1986	None	
G21	Exterior Part Painting Operations including:	N/A	N/A	
	Solvent Wiping, Line, B	April-2005	None	401 KAR 63:002
	All Coating Applications, Line B	April-2005	Booth B – Filter RF06 for PM Booth B – Scrubber RS08 for PM Booth B - VOC Carryover to Ovens	401 KAR 63:002
	Repair Painting, Line B	April-2005	None	401 KAR 63:002

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
	Bake Oven, Lines A & B	April-2005	Ovens A& B – Incinerator RI01 for VOC	
G22	Bumper Painting Operations including:			
	Solvent Wiping, Lines C, D, E, F	July 17, 1986	None	401 KAR 63:002
	All Coating Applications, Lines C, D, E, F	July 17, 1986	Booth C – Filter (Primer) RF07 for PM Booth D – Filter (Primer) RF08 for PM Booth E – Filter (Primer) RF09 for PM Booth F – Filter (Primer) RF10 for PM Booth C – Scrubber RS09 for PM Booth D – Scrubber RS10 for PM Booth E – Scrubber RS11 for PM Booth F – Scrubber RS12 for PM Booth E (Base/Clear) – Carbon RC01 for VOC Booth F (Base/Clear) – Zeolite RC02 for VOC Booth E (Base/Clear) – Th.Oxidizer RT03 for VOC Booth F (Base/Clear) – Th.Oxidizer RT05 for VOC Booths C/D/E/F - VOC Carryover to Ovens	401 KAR 63:002
	Repair Painting, Lines C, D, E, F	July 17, 1986	None	401 KAR 63:002

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
	Bake Oven, Lines C, D, E, F	July 17, 1986	Oven C – Th.Oxidizer RT01 for VOC Oven D – Th.Oxidizer RT02 for VOC Oven E – Th.Oxidizer RT04 for VOC Oven F – Th.Oxidizer RT06 for VOC	
G23	Bumper Dry Sanding (Insignificant Activities List)	July 17, 1986	None	
G24	General Exhaust	March 22, 1991	None	
G25	Manifold Assembly Operation (Insignificant Activities List)	Aug 1, 1999	None	

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Regulatory Details:**

401 KAR 51:017, Prevention of significant deterioration of air quality, applicable to a major stationary source or a major modification which

- (1) Commenced construction after September 22, 1982;
- (2) Emits a pollutant regulated by 42 USC 7401 to 7671q (Clean Air Act); and
- (3) Constructed in an area designated as attainment or unclassifiable for a pollutant as defined pursuant to 42 USC 7407(d)(1)(A)(ii) or (iii) (Section 107(d)(1)(A)(ii) or (iii) of the Clean Air Act). Area designations are contained in 40 CFR 81.318.

401 KAR 59:010, New Process Operations. The provisions of this regulation shall apply to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulate in this chapter, commenced on or after July 2, 1975.

401 KAR 63:002, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks incorporating by reference 40 CFR 63.3080 to 63.3176 (Subpart IIII) applicable to those items listed in paragraphs (b)(1) through (4) of section 63.3082 of Subpart IIII. (Refer to Section D).

40 CFR Part 64, Compliance Assurance Monitoring.

### **1. Operating Limitations:**

The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2. Wherever practicable, the permittee should utilize work practices to minimize emissions from non-process cleaning activities. The permittee shall install, maintain, and operate its control equipment in accordance with manufacturers' recommendations and/or good engineering practice. The permittee shall conform to the operating conditions, as prescribed in the periodic monitoring requirements table. Refer to Section D.6 for requirements specific to Subpart IIII.

#### **Specific Operating Limitations for Thermal Oxidizers:**

**A.** The average combustion chamber temperature in any 3-hour period shall not fall more than 28°C (50°F) below the combustion temperature limit established during the most recent performance test, which demonstrated compliance.

**B.** The permittee shall use the data collected during the performance test to calculate and record the average combustion temperature. This average combustion temperature is the minimum set point for the thermal oxidizer. The minimum-operating limit for thermal oxidizers is 28°C (50°F) below the minimum set point temperature.

#### **Compliance Demonstration Method:**

The permittee must monitor the temperature in the firebox of the thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs. The combustion temperature shall be monitored during operation. Compliance shall be demonstrated by monitoring and recording the average combustion temperature as required by the Periodic Monitoring Requirements table, averaged over 3 hours.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****1. Operating Limitations(Continued):****Specific Operating Limitations for Catalytic Incinerators:**

**A.** The average temperature immediately before the catalyst bed in any 3-hour period shall not fall more than 28°C (50°F) below the limit established during the most recent performance test, which demonstrated compliance.

**B.** The permittee shall use the data collected during the performance test to calculate and record the average temperature just before the catalyst bed. This average temperature is the minimum set point for the catalytic incinerator. The minimum-operating limit for catalytic oxidizers is 28°C (50°F) below the minimum set point temperature. **Compliance**

**Demonstration Method:**

Compliance shall be demonstrated by monitoring and recording the temperature just before the catalyst bed as required by the Periodic Monitoring Requirements table, average over 3 hours.

**C.** The permittee must develop and implement an inspection and maintenance plan for its catalytic oxidizer(s). The plan must address, at a minimum, the elements specified in paragraphs (C)(i) through (C)(iii) of this section.

**(i)** Annual sampling and analysis of the catalyst activity (i.e., conversion efficiency) following the manufacturer's or catalyst supplier's recommended procedures. If problems are found during the catalyst activity test, the permittee must replace the catalyst bed or take other corrective action consistent with the manufacturer's recommendations. (An annual performance test to determine destruction efficiency is accepted in lieu of annual sampling and analysis of the catalyst activity.)

**(ii)** Monthly external inspection of the catalyst oxidizer system, including the burner assembly and fuel supply lines for problems and, as necessary, adjust the equipment to assure proper air-to-fuel mixtures.

**(iii)** Annual internal inspection of the catalyst bed to check for channeling, abrasion, and settling. If problems are found during the annual internal inspection of the catalyst, the permittee must replace the catalyst bed or take other corrective action. If the catalyst bed is replaced and is not of like or better kind and quality as the old catalyst then the permittee must conduct a new performance test to determine destruction efficiency according to Section D.3 of this permit and 40 CFR 60 Subpart A, General Provisions. If a catalyst bed is replaced and the replacement catalyst is of like or better kind and quality as the old catalyst, then a new performance test to determine destruction efficiency is not required and the permittee may continue to use the previously established operating limits for that catalytic oxidizer.

See Periodic Monitoring Requirements table, emission unit G21.

**Specific Operating Limitations for Carbon Wheel Concentrators:**

**A.** The permittee must keep the set point for the desorption gas inlet temperature no lower than 17°C (30°F) below the lower of that set point during the performance test for the concentrator and the average desorption gas inlet temperature established during the performance test.

**B.** The permittee shall use the data collected during the performance test to calculate and record the average desorption gas inlet temperature. The minimum-operating limit for the concentrator is 17°C (30°F) below the set point desorption gas inlet temperature established during the performance test.



## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**1. Operating Limitations(Continued):**

**Compliance Demonstration Method:**

Compliance shall be demonstrated by monitoring and recording the desorption gas inlet temperature as required by the periodic monitoring requirements table, averaged over 3 hours.

**Specific Operating Conditions for Purging Solvent Borne Solvents:**

Except for applicator nozzles/tips, coating applicator purging solvents shall be collected and retained until such time as they are shipped offsite for disposal or recycled. Waste purge solvent tanks shall be kept closed when not in use.

**Specific Operating Limitations for Emission Unit G19:**

**401 KAR 59:185:§ 4, Cold Cleaners** (applies to batch degreasers)

Control Equipment Specifications:

- (a) The cleaner shall be equipped with a cover and shall be designed so that it can be operated with one hand.
- (b) It shall also be equipped with a drainage system such that the solvent draining from the part will return to a reservoir. If the vapor pressure is greater than 32 mm Hg, then the system must be internal.
- (c) On all containers, a label must be on or near the cleaner.
- (d) The spray, if used, must be a liquid stream, not atomized, and must be under low pressure to minimize splashing.

Operating Requirements:

- (a) If waste solvent is transferred, losses must remain at less than 20% by weight. Waste must be stored in covered containers.
- (b) The degreaser cover shall be closed when parts are not being handled in the cleaner.
- (c) Cleaned parts shall be drained until dripping stops.

Any cold cleaner shall be exempt from the control requirements set forth herein if the criteria of 401 KAR 59:185 Section 8 are met and a record of the applicability of the exemption is maintained by TMMK and submitted to the Division. If at any point in time the criteria of the exemption are not met, the cold cleaner shall be subject to the specific Operating Limitations set forth herein.

**2. Emission Limitations:**

**401 KAR 59:010: §3** The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than twenty (20) percent opacity.

**Compliance Demonstration Method:**

See Monitoring Requirements, B.4.

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **2. Emission Limitations(Continued):**

#### **401 KAR 59:010 §3**

Particulate emissions shall not equal or exceed the emission rate determined by the following equation:

$$E = 3.59 \times (P)^{(0.62)}$$

Where,

E = Emission rate is pounds per hour.

P = Process weight rate to the affected facility in tons per hour.

Process Weight: The total weight of all materials introduced into any affected facility which may cause any emission of particulate matter, but does not include liquid and gaseous fuel charged, combustion air, or uncombined water.

Affected Facility: The last operation preceding the emission of air contaminants, which results:

- (a) In the separation of the air contaminant from the process materials;  
or
- (b) In the conversion of the process materials into air contaminants,  
but does not include an air pollution abatement operation.

If  $P \leq 0.50$  tons per hour, then  $E = 2.34$  pounds per hour.

#### **Compliance Demonstration Method:**

- (1) For affected facilities that use transfer efficiency in the determination of PM/PM<sub>10</sub> emissions the permittee shall:

Use a transfer efficiency value determined through testing approved by the Division.

Previous transfer efficiency tests may be accepted if the following conditions are met:

- (a) The previous test must have been conducted using methods and conditions approved by the Division.
- (b) Either no process or equipment changes have been made since the previous test was performed or the owner or operator must be able to demonstrate that the results of the performance test, reliably demonstrate compliance despite process or equipment changes.
- (c) Either the required operating parameters were established in the previous test or sufficient data were collected in the previous test to establish the operating parameters.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**2. Emission Limitations(Continued):**

**401 KAR 59:010 §3**

**Compliance Demonstration Method(Continued):**

(2) The total process weight, “P” as defined above must reflect a period that covers a complete operation or an integral number of cycles, divided by the hours of actual process operation during such a period. This period shall not exceed 24 hours. In the case where there are no periodic monitoring requirements associated with the affected facility, continuous compliance shall be assured as long as there are no process or operational changes. The determination of the emission rate “E” in pounds per hour for compliance with 401 KAR 59:010 may also be used to demonstrate compliance with 401 KAR 51:017, except that the period allowed for the determination of “P” shall be one month.

For affected facilities with periodic monitoring requirements for particulate emissions the source shall demonstrate continuous compliance by adhering to the periodic monitoring requirements table. The source must maintain a record of deviations from “standard ranges” in the periodic monitoring requirements table and determine the particulate emissions from the deviation. The duration of the deviation shall be the period between when the “out of standard condition” was noted and when it is corrected. If an engineering evaluation utilizing a control efficiency is used to determine particulate emissions for the affected facility, the allowed control efficiency shall be zero during the deviation period unless testing is conducted to prove otherwise.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations(Continued):**

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere of more than the following, as calculated on a monthly basis:

EMISSION UNIT	OPERATION	VOC LIMIT (lb/job)	PM LIMIT (lb/hr)
G03	Reaction Injection Molding	N/A	4.13
G04	Interior Part Painting Booths B Booth C	0.26	0.86 0.41
G11	Door Trim Molding	N/A	N/A
G13	Slush Molding Operation	N/A	1.28
G14	Vacuum Form Booths 1 and 2	0.14	1.35
G17	Water/Wastewater Treatment	N/A	0.56
G19	Non-Process Cleaning Activities Bumper Paint E/F Purge All Other Cleaning	1.17 1.17	0.14
G20	Monofoam	0.24	2.36
G21	Exterior Part Painting: Line B	0.49	0.99
G22	Bumper Painting:	1.040	5.42
G24	General Exhaust	N/A	1.73

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations(Continued):****Compliance Demonstration Method:**

VOC Value =  $\text{SUM } (U_i \times V_i \times E_i \times (1 - C_i \times F)) / P$ ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency,

$P$  = Production rate (number of Assembly vehicles produced)

PM Value = Measurement, when prescribed by periodic monitoring requirements table. Otherwise PM shall be calculated as follows:

PM Value =  $\text{SUM } (P/P_m \times E_i)$ ,

$P$  = Average shop production throughput,

$P_m$  = Maximum vehicle production rate

$E_i$  = PM Emission Factor (controlled) for each stack "i".

See Compliance Demonstration Method for 401 KAR 59:010, this Section.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere more than 498 tons per year of VOC emissions from its Line 2 operations and 1,131 tons per year total from the Plastics shop, based on a 12-month rolling total.

**Compliance Demonstration Method:**

VOC Value =  $\text{SUM } (U_i \times V_i \times E_i \times (1 - C_i \times F_i))$ ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere more than 27.4 tons per year of PM emissions from its Line 2 operations and 68.5 tons per year total from the Plastics shop, based on a 12-month rolling total.

**Compliance Demonstration Method:**

1) Calculated from the following equation, except where testing is specified

(see item 2)

PM Value =  $\text{SUM } (P \times E_i)$ ,

$P$  = Average shop production throughput

$E_i$  = PM Emission Factor (controlled) for "i",

See Compliance Demonstration Method for 401 KAR 59:010, this Section.

2) Testing, see periodic monitoring requirements table.

## SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

### 2. Emission Limitations(Continued):

#### 40 CFR 63 Subpart IIII, § 63.3091 - Emission Limits for Existing Sources

EMISSION UNITS	NESHAP AFFECTED OPERATIONS	EMISSION LIMIT
G04	(a) Coatings and thinners	Refer to Section D for Group Emission Limits.
G11	(b) Adhesives and sealers other than glass bonding adhesive	
G13	(c) Final Repair	
G14	(d) Adhesives and sealers other than glass bonding adhesive	
G15	(e) Adhesives and sealers other than glass bonding adhesive	
G21	(f) Coatings and thinners	
G22	(g) Primer-surfacer	
G22	(h) Topcoat	
ALL	(i) Coatings and thinners	

#### Compliance Demonstration Method:

Refer to Section D.6.

### 3. Testing Requirements:

The permittee shall perform stack testing according to the standards and schedule specified in the Periodic Monitoring Requirements table. Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4. See Section D.5

### 4. Specific Monitoring Requirements:

The permittee shall conform to the monitoring requirements, as prescribed in the Periodic Monitoring Requirements table.

The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit. Refer to Section D.6 for requirements specific to Subpart IIII.

The permittee shall perform a qualitative visual observation of the opacity of emissions from the rooftop on a weekly basis and maintain a log of the observations. If visible emissions from a stack are seen (not including condensed water vapor within the plume), then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs.

#### Specific Monitoring Requirements for Emission Units G21 and G22:

An alarm system shall be installed on emission units G21 and G22 which will notify the operator of the units in the event the burner temperature of the incinerator falls below indicator range as prescribed by periodic monitoring requirements table.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****4. Specific Monitoring Requirements (Continued):****Specific Monitoring Requirements for Carbon Concentrators:**

The performance of the adsorbent material will be verified by examining representative samples and testing the performance (adsorbent activity) per the manufacturer's recommendation. The results shall be assessed (e.g., compared to historical results and/or results for new adsorbent) and the adsorbent shall be replaced as appropriate.

Alternatively, performance can be checked with a portable flame ionization detector (FID), photo ionization detector (PID), or other appropriate equipment or methodologies. In this case, the concentration of the adsorber outlet stream, or the percent reduction in concentration of the inlet/outlet stream measurements are compared to historical data from performance tests. The results shall be assessed and the adsorbent shall be replaced as appropriate.

**5. Specific Recordkeeping Requirements:**

The permittee shall conform to the record keeping requirements, as prescribed in the Periodic Monitoring Requirements table. The permittee shall maintain monthly records of the data specified in **2. Emission Limitations** required to calculate the emission rate of VOC in terms of pounds per job. The permittee shall maintain annual records of the maximum material usage rates and maximum vehicle production rates for each emission unit which uses a control device to demonstrate compliance with the pounds per job emission limits for VOC specified in **2. Emission Limitations**. These records shall specify the methodology used to determine the maximum material usage rate, and must reflect the most current technology used.

Refer to Section D.6 for requirements specific to Subpart III.

In addition, for all required emissions control equipment, the permittee shall keep the following records:

- a. Design and/or manufacturer's specifications.
- b. Preventive maintenance records related to performance of control equipment.
- c. All periods, during normal operating conditions, where parameters listed in the periodic monitoring requirements table are "out of standard". For thermal oxidizers, catalytic incinerators and carbon wheel concentrators, "out of standard" is defined as a confirmed three-hour period during which the average of the monitored values fails to meet the specified temperature requirements.
- d. All periods, during normal operating conditions, where emissions control equipment, required by this permit, is not operating.
- e. All periods, during normal operating conditions, where emissions control equipment, required by this permit, is bypassed.
- f. Description of operating, temperature-measuring devices (e.g., automatic strip charts, digital data acquisition systems).
- g. Data from the temperature-measuring devices (as prescribed by the periodic monitoring requirements table) and any temporary data logged manually as back up.
- h. Inspection reports and maintenance performed in response to recommendations in inspection reports.
- i. Monitoring system malfunctions.

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **5. Specific Recordkeeping Requirements (Continued):**

- j. Corrective actions taken in response to “out of standard” conditions as specified in the periodic monitoring requirements table.
- k. Calibration records for monitoring equipment specified in the periodic monitoring requirements table.
- l. Records documenting the results of each opacity reading by EPA Reference Method 9 shall be maintained.
- m. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20%.

### **Thermal Oxidizer Specific Recordkeeping Requirements:**

The permittee shall maintain records of the following information for the thermal oxidizer:

1. All 3-hour periods (during coating operations) during which the average combustion chamber temperature of the thermal oxidizer is more than 28°C (50°F) below the average combustion chamber temperature of the thermal oxidizer determined during the most recent performance test which demonstrated compliance. Each occurrence shall be considered a deviation from permit requirements. See Section F.6.
2. During all periods of operation of the thermal oxidizer in which the 3-hour average combustion chamber temperature of the thermal oxidizer is more than 28°C (50°F) below the average combustion chamber temperature of the thermal oxidizer during the most recent performance test which demonstrated compliance, or other malfunction of the thermal oxidizer, a daily log of the following information shall be kept:
  - a. Whether any air emissions were visible from the facilities associated with the thermal oxidizer.
  - b. Whether visible emissions were normal for the process.
  - c. The cause of the visible emissions.
  - d. Corrective action(s) taken shall be recorded.

### **Catalytic Incinerator Specific Recordkeeping Requirements:**

The permittee shall maintain records of the following information for the catalytic incinerator:

1. All 3-hour periods (during coating operations) during which the average temperature immediately before the catalyst bed is more than 28°C (50°F) below the average temperature immediately before the catalyst bed determined during the most recent performance test which demonstrated compliance. Each occurrence shall be considered a deviation from permit requirements. See Section F.6.
2. All 3-hour periods (during coating operations) which the 3-hour average temperature immediately before the catalyst bed is more than 28°C (50°F) below the average temperature immediately before the catalyst bed determined during the most recent performance test which demonstrated compliance, or other malfunction of the catalytic incinerator, a daily log of the following information shall be kept:
  - a. Whether any air emissions were visible from the facilities associated with the catalytic incinerator.
  - b. Whether visible emissions were normal for the process.
  - c. The cause of the visible emissions.
  - d. The corrective action(s) taken shall be recorded.



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****5. Specific Recordkeeping Requirements (Continued):****Carbon Wheel Concentrator Specific Recordkeeping Requirements:**

The permittee shall maintain records of the following information for the carbon wheel concentrator:

1. All periods (during coating operations) in which the 3-hour average desorption gas inlet temperature is more than 17°C (30°F) below the average desorption gas inlet temperature determined during the most recent performance test, which demonstrated compliance. Each occurrence shall be considered a deviation from permit requirements. See Section F.6.
2. During all periods of operation of the carbon wheel concentrator in which the 3-hour average desorption gas inlet temperature is more than 17°C (30°F) below the average desorption gas temperature determined during the most recent performance test which demonstrated compliance, or other malfunction of the carbon wheel concentrator, a daily log of the following information shall be kept:
  - a. Whether any air emissions were visible from the facilities associated with the carbon wheel concentrator.
  - b. Whether visible emissions were normal for the process.
  - c. The cause of the visible emissions.
  - d. Corrective action(s) taken shall be recorded.

The permittee shall keep calendar month records of usage of all applicable raw materials. Following the end of each month, Volatile Organic Compounds (VOC) emissions and Particulate Matter (PM) emissions shall be calculated on a twelve-month rolling total and recorded. Following the end of each month, pounds per job limits for VOC and pounds per hour limits for PM shall be calculated and recorded. These records shall represent the most recent year and shall show compliance with VOC and PM emission limitations listed in this permit. These records shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.

All records required by this permit shall be kept for a minimum of 5 years.

**6. Specific Reporting Requirements:**

The permittee shall submit summary monitoring reports every six (6) months containing monitoring and recordkeeping information listed in Sections B.4 and B.5 of this permit. (See Section F.5 for specific reporting dates.) The report shall list any “out of standard” conditions for periodic monitoring requirements, as listed in the Periodic Monitoring Requirements table below. If no “out of standard” conditions occurred, the permittee shall submit a negative report.

**7. Specific Control Equipment Operating Conditions:**

See Section B.1.

**8. Alternate Operating Scenarios:**

N/A

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****PLASTICS - PERIODIC MONITORING REQUIREMENTS**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
G04	Injection Parts Painting (B & C)	Booth Scrubbers (RS02, RS03)	PM Removal Efficiency	Water Wall Coverage	Visual	Weekly	Weekly	N/A	No Significant Gaps
G04	Injection Parts Painting (B & C)	Booth Scrubbers (RS02, RS03)	Air Speed Through Venturi	Exhaust Air Fan Rotation	Visual	Daily**	Daily**	Weekly Confirm	Rotating
G13	Slush Mold	Fluidized Bed Filters (RF01, RF02, RF03, RF04)	Filter Condition	Press Drop	Gauge	Continuous	Weekly	Annual	0 – 5 in. H <sub>2</sub> O
G14	Vacuum Form, Adhesive Spray (1 & 2)	Waterwall Scrubbers (RS04, RS05)	PM Removal Efficiency	Water Wall Coverage	Visual	Weekly	Weekly	N/A	No Significant Gaps
G19	Non-process Cleaning Activities (Purge Recovery)	Solventborne Waste Purge Tank (Line 1 and 2)	VOC Emission Credit	Recovered Purge	Meter	Monthly	Monthly	Annual	See Permit Limit Section B.2
G19	Non-process Cleaning Activities (Purge Usage)	Solventborne Virgin Purge Tank (Line 1 and 2)	VOC Emission	Virgin Purge	Meter	Monthly	Monthly	Annual	See Permit Limit Section B.2
G19	Non-process Cleaning Activities (Purge Usage)	Solventborne Virgin Purge Tank (Injection Parts)	VOC Emission	Virgin Purge	Meter	Monthly	Monthly	Annual	See Permit Limit Section B.2
G21	Ext Part Paint Booth B	Booth Scrubber (RS08)	PM Removal Efficiency	Gaps at Venturi	Visual	Weekly	Weekly	N/A	No Significant Gaps
G21	Ext Part Paint Booth B	Exhaust Filters (RF06)	Filter Condition	All Final Filters In Place	Visual	Monthly	Monthly	N/A	No Visible By-Pass

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
G21	Ext Part Paint Booth B	Booth Exhaust (RF06)	Emission Rate	Particulate Emission	Stack Test (EPA Method 17)	Every 5 *Years	Every 5 Years*	Each Test	See Section B.2
G21	Ext Part Paint Booth B	Exhaust Filters (RF06)	Filter Condition	Press Drop	Gauge	Continuous	Weekly	Annual	0 - 60 mm Hg
G21	Ext Part Paint Ovens A & B	Catalytic Incinerator (RI01)	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Annual	Annual	Each Test	DRE > 80%
G21	Ext Part Paint Ovens A & B	Catalytic Incinerator (RI01)	Destruction Efficiency	Catalytic Incinerator System	External Inspection****	Monthly	Monthly	N/A	DRE > 80%
G21	Ext Part Paint Ovens A & B	Catalytic Incinerator (RI01)	Destruction Efficiency	Catalyst Bed	Internal Inspection****	Annual	Annual	N/A	DRE > 80%
G21	Ext Part Paint Ovens A & B	Catalytic Incinerator (RI01)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.***
G21	Ext Part Paint Ovens A & B	Catalytic Incinerator (RI01)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
G22	Bumper Paint Booths (C,D,E,F)	Exhaust Filters (RF07, RF08, RF09, RF10)	Filter Condition	Press Drop	Gauge	Continuous	Weekly	Annual	0 – 1.1 in. H <sub>2</sub> O
G22	Bumper Paint Booths (C,D,E,F)	Booth Scrubbers (RS09, RS10, RS11, RS12)	PM Removal Efficiency	Gaps at Venturi	Visual	Weekly	Weekly	N/A	No Significant Gaps
G22	Bumper Paint Booths (C,D,E,F)	Booth Exhaust	Emission Rate	Particulate Emission	Stack Test (EPA Method 17)	Every 5 Years*	Every 5 Years*	Each Test	See Section B.2
G22	Bumper Paint Booths (C,D,E,F)	Exhaust Filters (RF07, RF08, RF09, RF10)	Filter Condition	All Final Filters In Place	Visual	Monthly	Monthly	N/A	No Visible By-Pass

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
G22	Bumper Paint Ovens (C,D,E,F)	Thermal Oxidizers (RT01, RT02, RT04, RT06)	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years*	Every 5 Years*	Each Test	DRE > 95%
G22	Bumper Paint Ovens (C,D,E,F)	Thermal Oxidizers (RT01, RT02, RT04, RT06)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.***
G22	Bumper Paint Ovens (C,D,E,F)	Thermal Oxidizers (RT01, RT02, RT04, RT06)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
G22	Bumper Paint Booths (E,F)	Carbon System (Abatement) (RC01, RC02)	Destruction Efficiency	Desorption Gas Inlet Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Not More Than 17°C Below Last Compliance Test, 3 Hour Avg.***
G22	Bumper Paint Booths (E,F)	Carbon/Zeolite System (RC01, RC02)	Destruction Efficiency	Desorption/Reactivation Fan Operation	Visual	Monthly	Monthly	N/A	Operating
G22	Bumper Paint Booths (E,F)	Carbon/Zeolite System (RC01, RC02)	Destruction Efficiency	Revolutions Per Hour (rph)	Stop Watch	Annually	Annually	N/A	1.5 – 2.5 rph
G22	Bumper Paint Booths (E,F)	Carbon/Zeolite System (Abatement) (RC01, RC02)	Destruction Efficiency	Adsorbent Material Performance	See Section B.4	Annually	Annually	See Section B.4	See Section B.4
G22	Bumper Paint Booths (E,F)	Carbon/Zeolite System (Abatement) (RC01, RC02)	Incinerator Collection	By-Pass Damper Position	Alarm	Continuous	Each Occurrence of an Alarm	Annual Confirm	No Faults
G22	Bumper Paint Booths (E,F)	Thermal Oxidizers (Abatement) (RT03, RT05)	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years*	Every 5 Years*	Each Test	DRE > 95%

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
G22	Bumper Paint Booths (E,F)	Thermal Oxidizers(Abatement) (RT03, RT05)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.***
G22	Bumper Paint Booths (E,F)	Thermal Oxidizers(Abatement) (RT03, RT05)	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
G22	Bumper Paint Booths (E,F)	Carbon/Zeolite Systems (Abatement) (RC01, RC02)	Destruction Efficiency	Wheel Rotation	Proximity Switch	Continuous	Daily	Annual Confirm	No Faults
G22	Bumper Paint Booths (E,F)	Carbon/Zeolite Systems (Abatement) (RC01, RC02)	Destruction Efficiency	Wheel Rotation (confirmation)	Visual	Weekly	Weekly	N/A	Rotating

**\*No later than year 3 of this permit.**

**\*\*“Daily” means TMMK production day; A TMMK production day consists of both first and second shifts.**

**\*\*\*Excursions from temperature standard ranges are based upon 3-hour averages. Averages of data readings need only be recorded for those 3-hour rolling periods in which an excursion occurs.**

**\*\*\*\*External inspection of the Catalytic Incinerator System consists of inspecting the burner assembly, natural gas piping system and external housing. Internal inspection of the catalyst bed consists of verifying conditions for channeling, abrasion and settling; controller calibration; and gas leak detector inspection.**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE  
REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**POWERTRAIN**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Description and Applicable Regulations:**

401 KAR 59:010 and 401 KAR 51:017 apply to all affected facilities listed in the following table.

**POWERTRAIN, 800 BUILDING, Operations include the following processes**

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
H01	All Cutting Operations V6 L4 Axle L4-2	1988-1999 1988-1999 1988-1999 2007	Filters for PM (MZY 1110-1,2 MZY0010) HVAC Filters for PM	
H02	Coating Application, including hub and shaft (Insignificant Activities List)	1988-1999	None	401 KAR 63:002
H03	All Honing Operations V6 L4 L4-2	1988-1999 1988-1999 2007	4 Cylinder Block (MZY1147) - Filter for PM All Other - HVAC Filters for PM	
H04	All Grinding Operations V6 L4 L4-2	1988-1999 1988-1999 2007	HVAC Filters for PM	
H05	Solvent Cleaning Operations, including, CIPG and other areas	1988-1999	None	401 KAR 59:185
H06	Corrosion Inhibitor Application (Insignificant Activities List)	1988-1999	None	
H07	Source Removed	1988	None	

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
H08	Quenching V6 L4 L4-2	1988-1999 1988-1999 2007	HVAC Filters for PM	
H09	Washing (Insignificant Activities List)	1988-1999	HVAC Filters for PM	
H10	Gasket Installation V6 L4 L4-2	1988-1999 1988-1999 2007	None	
H11	Raw Material Storage / Supply V6 L4 L4-2	1988-1993 1988-1993 2007	Gasoline Tanks - Conservation Valve	
H12	Engine Testing V6 L4 L4-2	1988 1988 2007	None	
H13	Operational Support, including material supply systems, scrap material handling, tool regrind and maintenance machining (Insignificant Activities List)	1988	None	
H14	Block Impregnation (Insignificant Activities List)	Oct-98	None	



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
H15	Process Lubrication Activities	1988	None	
H16	Process Cleaning Operations		None	401 KAR 63:002
	V6	1988		
	L4	1988		
	L4-2	2007		
H17	Final Assembly Operations (Insignificant Activities List)	1988	None	

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Regulatory Details:**

401 KAR 51:017, Prevention of significant deterioration of air quality, applicable to a major stationary source or a major modification which

- (1) Commenced construction after September 22, 1982;
- (2) Emits a pollutant regulated by 42 USC 7401 to 7671q (Clean Air Act); and
- (3) Constructed in an area designated as attainment or unclassifiable for a pollutant as defined pursuant to 42 USC 7407(d)(1)(A)(ii) or (iii) (Section 107(d)(1)(A)(ii) or (iii) of the Clean Air Act). Area designations are contained in 40 CFR 81.318.

401 KAR 59:010, New Process Operations. The provisions of this regulation shall apply to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulate in this chapter, commenced on or after July 2, 1975.

401 KAR 63:002, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks incorporating by reference 40 CFR 63.3080 to 63.3176 (Subpart IIII) applicable to those items listed in paragraphs (b)(1) through (4) of section 63.3082 of Subpart IIII. (Refer to Section D).

### **1. Operating Limitations:**

The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2. Refer to Section D.6 for requirements specific to Subpart IIII.

Wherever practicable, the permittee should utilize work practices to minimize emissions from non-process cleaning activities.

#### **Specific Operating Limitations for Emission Unit H05:**

**401 KAR 59:185:§ 4**, Cold Cleaners (applies to batch degreasers)

Control Equipment Specifications:

- (a) The cleaner shall be equipped with a cover and shall be designed so that it can be operated with one hand.
- (b) It shall also be equipped with a drainage system such that the solvent draining from the part will return to a reservoir. If the vapor pressure is greater than 32 mm Hg, then the system must be internal.
- (c) On all containers, a label must be on or near the cleaner.
- (d) The spray, if used, must be a liquid stream, not atomized, and must be under low pressure to minimize splashing.

Operating Requirements:

- (a) If waste solvent is transferred, losses must remain at less than 20% by weight. Waste must be stored in covered containers.
- (b) The degreaser cover shall be closed when parts are not being handled in the cleaner.
- (c) Cleaned parts shall be drained until dripping stops.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****1. Operating Limitations:**

Any cold cleaner shall be exempt from the control requirements set forth herein if the criteria of 401 KAR 59:185 Section 8 are met and a record of the applicability of the exemption is maintained by TMMK and submitted to the Division. If at any point in time the criteria of the exemption are not met, the cold cleaner shall be subject to the specific Operating Limitations set forth herein.

**2. Emission Limitations:**

**401 KAR 59:010: §3** The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than twenty (20) percent opacity.

**Compliance Demonstration Method:**

See Monitoring Requirements, B.4.

**401 KAR 59:010 §3**

Particulate emissions shall not equal or exceed the emission rate determined by the following equation:

$$E = 3.59 \times (P)^{(0.62)}$$

Where,

E = Emission rate is pounds per hour.

P = Process weight rate to the affected facility in tons per hour.

Process Weight: The total weight of all materials introduced into any affected facility which may cause any emission of particulate matter, but does not include liquid and gaseous fuel charged, combustion air, or uncombined water.

Affected Facility: The last operation preceding the emission of air contaminants, which results:

- (a) In the separation of the air contaminant from the process materials; or
- (b) In the conversion of the process materials into air contaminants, but does not include an air pollution abatement operation.

If  $P \leq 0.50$  tons per hour, then  $E = 2.34$  pounds per hour.

The total process weight, "P" as defined above must reflect a period that covers a complete operation or an integral number of cycles, divided by the hours of actual process operation during such a period. This period shall not exceed 24 hours. In the case where there are no periodic monitoring requirements associated with the affected facility, continuous compliance shall be assured as long as there are no process or operational changes. The determination of the emission rate "E" in pounds per hour for compliance with 401 KAR 59:010 may also be used to demonstrate compliance with 401 KAR 51:017, except that the period allowed for the determination of "P" shall be one month.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations(Continued):****Compliance Demonstration Method(Continued):****401 KAR 59:010 §3**

For affected facilities with periodic monitoring requirements for particulate emissions the source shall demonstrate continuous compliance by adhering to the periodic monitoring requirements table. The source must maintain a record of deviations from “standard ranges” in the periodic monitoring requirements table and determine the particulate emissions from the deviation. The duration of the deviation shall be the period between when the “out of standard condition” was noted and when it is corrected. If an engineering evaluation utilizing a control efficiency is used to determine particulate emissions for the affected facility, the allowed control efficiency shall be zero during the deviation period unless testing is conducted to prove otherwise.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere of more than the following, as calculated on a monthly basis:

EMISSION UNIT	OPERATION	VOC LIMIT (lb/job)	PM LIMIT (lb/hr)
H01	Cutting Operations	0.13	N/A
H03	Honing Operations	0.030	N/A
H04	Grinding Operations	0.015	N/A
H05	Non-Process Cleaning Activities	0.031	N/A
H08	Quenching Activities	0.016	N/A
ALL POINTS	All Powertrain Operations	N/A	3.69

**Compliance Demonstration Method:**

VOC Value =  $\text{SUM } (U_i \times V_i \times E_i \times (1 - C_i \times F)) / P$ ,

$U_i$  = Usage of material “i”,

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency,

$P$  = Production rate (total number of engines and axles assembled)

PM Value = Measurement, when prescribed by periodic monitoring requirements table. Otherwise PM shall be calculated as follows:

PM Value =  $\text{SUM } (P/P_m \times E_i)$ ,

$P$  = Average shop production throughput,

$P_m$  = Maximum vehicle production rate

$E_i$  = PM Emission Factor (controlled) for each stack “i”.

See Compliance Demonstration Method for 401 KAR 59:010, this Section.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations(Continued):**

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Powertrain Operations of more than 182.4 tons per year of VOC emissions, based on a 12-month rolling total.

**Compliance Demonstration Method:**

VOC Value = SUM (Ui x Vi x Ei x (1-Ci x Fi)) ,

Ui = Usage of material "i",

Vi = Volatile organic compound (VOC) content,

Ei = VOC Emission Factor, F = Control efficiency,

Ci = Collection efficiency.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Powertrain Operations of more than 16.1 tons per year of PM emissions, based on a 12-month rolling total.

**Compliance Demonstration Method:**

1) Calculated from the following equation, except where testing specified (see item 2)

PM Value = SUM (P x Ei) ,

P = Average shop production throughput

Ei = PM Emission Factor (controlled) for "i",

See Compliance Demonstration Method for 401 KAR 59:010, this Section.

2) Testing, see periodic monitoring requirements table.

**40 CFR 63 Subpart IIII, § 63.3091 - Emission Limits for Existing Sources**

EMISSION UNITS	NESHAP AFFECTED OPERATIONS	EMISSION LIMIT
H02	Primer-surfacer	Refer to Section D for Group Emission Limits.

**Compliance Demonstration Method:**

Refer to Section D.6.

**3. Testing Requirements:**

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4.

**4. Specific Monitoring Requirements:**

The permittee shall conform to the monitoring requirements, as prescribed in its Periodic Monitoring Requirements table. Refer to Section D.6 for requirements specific to Subpart IIII.

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**4. Specific Monitoring Requirements:**

The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit.

If visible emissions from a stack are seen (not including condensed water vapor within the plume), then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs.

**5. Specific Recordkeeping Requirements:**

The permittee shall conform to the record keeping requirements, as prescribed in its Periodic Monitoring Requirements table. All periodic monitoring records shall be maintained for a period of not less than 5 years.

The permittee shall maintain monthly records of the data specified in **2. Emission Limitations** required to calculate the emission rate of VOC in terms of pounds per job.

Refer to Section D.6 for requirements specific to Subpart IIII.

The permittee shall keep calendar month records of usage of all applicable raw materials. Following the end of each month, Volatile Organic Compounds (VOC) emissions and Particulate Matter (PM) emissions shall be calculated on a twelve-month rolling total and recorded. Following the end of each month, pounds per job limits for VOC and pounds per hour limits for PM shall be calculated and recorded. These records shall represent the most recent year and shall show compliance with VOC and PM emission limitations listed in this permit. These records shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.

- a. Records documenting the results of each opacity reading by EPA Reference Method 9 shall be maintained.
- b. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20%.

**6. Specific Reporting Requirements:**

The permittee shall submit summary monitoring reports every six (6) months containing monitoring information listed in Sections B.4 and B.5 of this permit. (See Section F.5 for specific reporting dates.) The report shall list any “out of standard” conditions or periodic monitoring requirements, as listed in the Periodic Monitoring Requirements table below. If no “out of standard” conditions occurred, the permittee shall submit a negative report.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**7. Specific Control Equipment Operating Conditions:**

The permittee shall install, maintain, and operate its control equipment in accordance with manufacturers' recommendations and/or good engineering practice.

The control equipment listed for these emissions units shall be operated anytime the processes are operating. For HVAC filter systems, "in operation" is defined as "all filters being in place, with no emissions by-pass occurring". All HVAC systems need not be exhausting air, while the process(es) is operating.

**8. Alternate Operating Scenarios:**

N/A

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****POWERTRAIN - PERIODIC MONITORING REQUIREMENTS**

<b>Emission Unit</b>	<b>Operation</b>	<b>Equipment Monitored</b>	<b>Characteristic Monitored</b>	<b>Parameter Monitored</b>	<b>Method or Device</b>	<b>Monitoring Frequency</b>	<b>Recording Frequency</b>	<b>Calibration Frequency</b>	<b>Standard Range</b>
H01 H03 H04 H08 H09	HVAC Systems (Powertrain)	HVAC Exhaust Filters	Filter Condition	Pressure Drop	Gauge	Continuous	Intermittent (Problem Log)	Annual	No Alarms
H01	4 Cylinder - Head	Filter, MZY 0010 (Final Stage)	Filter Condition and Collection	Pressure Drop	Gauge	Continuous	Daily**	Annual	0.1 – 4.0 inches H <sub>2</sub> O
H01	V6 - Block	Filter, MZY 1110-2 (3rd stage)	Filter Condition and Collection	Pressure Drop	Gauge	Continuous	Daily**	Annual	0.1 – 4.0 inches H <sub>2</sub> O
H01	V6 - Block	Filter, MZY 1110-1 (3rd stage)	Filter Condition and Collection	Pressure Drop	Gauge	Continuous	Daily**	Annual	0.1 – 4.0 inches H <sub>2</sub> O
H03	4 Cylinder - Block	Mist Collector (MZY 1147)	Mist Collection	Pressure Drop	Gauge	Continuous	Monthly	Annual	0.1 –2.0 inches H <sub>2</sub> O
H11	Raw Material Storage	Gasoline Tanks	Conservation Vents	Function	Visual	Annual	Annual	N/A	Functions

**\*\*“Daily” means TMMK production day; A TMMK production day consists of both first and second shifts.**



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE  
REGULATIONS, AND OPERATING CONDITIONS**

**PRODUCTION CONTROL**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Description and Applicable Regulations:**

401 KAR 59:010 and 401 KAR 51:017 apply to all affected facilities listed in the following table.

**PRODUCTION CONTROL OPERATIONS** include the following processes:

<b>EMISSION UNIT</b>	<b>OPERATION</b>	<b>CONSTRUCTION COMMENCED</b>	<b>CONTROL EQUIPMENT</b>	<b>OTHER APPLICABLE REGULATIONS</b>
K01	Dock Unloading Areas (Insignificant Activities List)	July 17, 1986	None	
K02	Parts Conveyance (Insignificant Activities List)	July 17, 1986	None	
K03	Shipping Preparation (Insignificant Activities List)	July 17, 1986	None	
K04	Fork Truck Repair Painting (Insignificant Activities List)	July 17, 1986	None	
K05	Cross Dock (Insignificant Activities List)	Feb 2004	None	
K06	Battery Charging Stations (Insignificant Activities List)	July 17, 1986	None	
K07	Non-Process Cleaning Activities	July 17, 1986	None	401 KAR 59:185

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Regulatory Details:**

401 KAR 51:017, Prevention of significant deterioration of air quality, applicable to a major stationary source or a major modification which

- (1) Commenced construction after September 22, 1982;
- (2) Emits a pollutant regulated by 42 USC 7401 to 7671q (Clean Air Act); and
- (3) Constructed in an area designated as attainment or unclassifiable for a pollutant as defined pursuant to 42 USC 7407(d)(1)(A)(ii) or (iii) (Section 107(d)(1)(A)(ii) or (iii) of the Clean Air Act). Area designations are contained in 40 CFR 81.318.

401 KAR 59:010, New Process Operations. The provisions of this regulation shall apply to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulate in this chapter, commenced on or after July 2, 1975.

### **1. Operating Limitations:**

The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B (2).

Wherever practicable, the permittee should utilize work practices to minimize emissions from non-process cleaning activities.

### **Specific Operating Limitations for Emission Unit K07:**

**401 KAR 59:185: § 4**, Cold Cleaners (applies to batch degreasers)

Control Equipment Specifications:

- (a) The cleaner shall be equipped with a cover and shall be designed so that it can be operated with one hand.
- (b) It shall also be equipped with a drainage system such that the solvent draining from the part will return to a reservoir. If the vapor pressure is greater than 32 mm Hg, then the system must be internal.
- (c) On all containers, a label must be on or near the cleaner.
- (d) The spray, if used, must be a liquid stream, not atomized, and must be under low pressure to minimize splashing.

Operating Requirements:

- (a) If waste solvent is transferred, losses must remain at less than 20% by weight. Waste must be stored in covered containers.
- (b) The degreaser cover shall be closed when parts are not being handled in the cleaner.
- (c) Cleaned parts shall be drained until dripping stops.

Any cold cleaner shall be exempt from the control requirements set forth herein if the criteria of 401 KAR 59:185 Section 8 are met and a record of the applicability of the exemption is maintained by TMMK and submitted to the Division. If at any point in time the criteria of the exemption are not met, the cold cleaner shall be subject to the specific Operating Limitations set forth herein.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations:**

**401 KAR 59:010: §3** The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than twenty (20) percent opacity.

**Compliance Demonstration Method:**

Compliance with the opacity standard is assumed given the processes and activities associated with Production Control.

**401 KAR 59:010 §3**

The emission rate of particulate matter from an affected facility shall not exceed 2.34 pounds per hour.

**Compliance Demonstration Method:**

Compliance with the mass standard is assumed given the processes and activities associated with Production Control unless testing is required.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere of more than the following, as calculated on a monthly basis:

EMISSION UNIT	OPERATION	VOC LIMIT (lb/job)	PM LIMIT (lb/hr)
N/A	N/A	N/A	N/A

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Production Control Operations of more than 5 tons per year of VOC emissions.

**Compliance Demonstration Method:**

VOC Value =  $\text{SUM } (U_i \times V_i \times E_i \times (1 - C_i \times F_i))$  ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency.

**3. Testing Requirements:**

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4.

**4. Specific Monitoring Requirements:**

The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**5. Specific Recordkeeping Requirements:**

All periodic monitoring records shall be maintained for a period of not less than 5 years.

The permittee shall keep calendar month records of usage of all applicable raw materials. Following the end of each month, Volatile Organic Compounds (VOC) emissions and Particulate Matter (PM) emissions shall be calculated on a twelve-month rolling total and recorded. Following the end of each month, pounds per job limits for VOC and pounds per hour limits for PM shall be calculated and recorded. These records shall represent the most recent year and shall show compliance with VOC and PM emission limitations listed in this permit. These records shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.

**6. Specific Reporting Requirements:**

The permittee shall submit summary monitoring reports every six (6) months containing monitoring information listed in Sections B.4 and B.5 of this permit. (See Section F.5 for specific reporting dates.)

**7. Specific Control Equipment Operating Conditions:**

The permittee shall install, maintain, and operate its control equipment in accordance with manufacturers' recommendations and/or good engineering practice.

**8. Alternate Operating Scenarios:**

N/A

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE  
REGULATIONS, AND OPERATING CONDITIONS**

**QUALITY CONTROL**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Description and Applicable Regulations:**

401 KAR 59:010 and 401 KAR 51:017 apply to all affected facilities listed in the following table.

**QUALITY CONTROL OPERATIONS** include the following processes:

<b>EMISSION UNIT</b>	<b>OPERATION</b>	<b>CONSTRUCTION COMMENCED</b>	<b>CONTROL EQUIPMENT</b>	<b>OTHER APPLICABLE REGULATIONS</b>
J01	Audit Lab (Insignificant Activities List)	July 17, 1986	None	
J02	Raw Material Test Lab (Insignificant Activities List)	July 17, 1986	None	
J03	Test Track Operations (Insignificant Activities List)	July 17, 1986	None	
J04	Non-Process Cleaning Activities	July 17, 1986	None	401 KAR 59:185

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Regulatory Details:**

401 KAR 51:017, Prevention of significant deterioration of air quality, applicable to a major stationary source or a major modification which

- (1) Commenced construction after September 22, 1982;
- (2) Emits a pollutant regulated by 42 USC 7401 to 7671q (Clean Air Act); and
- (3) Constructed in an area designated as attainment or unclassifiable for a pollutant as defined pursuant to 42 USC 7407(d)(1)(A)(ii) or (iii) (Section 107(d)(1)(A)(ii) or (iii) of the Clean Air Act). Area designations are contained in 40 CFR 81.318.

401 KAR 59:010, New Process Operations. The provisions of this regulation shall apply to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulate in this chapter, commenced on or after July 2, 1975.

### **1. Operating Limitations:**

The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2.

Wherever practicable, the permittee should utilize work practices to minimize emissions from non-process cleaning activities.

### **Specific Operating Limitations for Emission Unit J04:**

**401 KAR 59:185: § 4**, Cold Cleaners (applies to batch degreasers)

Control Equipment Specifications:

- (a) The cleaner shall be equipped with a cover and shall be designed so that it can be operated with one hand.
- (b) It shall also be equipped with a drainage system such that the solvent draining from the part will return to a reservoir. If the vapor pressure is greater than 32 mm Hg, then the system must be internal.
- (c) On all containers, a label must be on or near the cleaner.
- (d) The spray, if used, must be a liquid stream, not atomized, and must be under low pressure to minimize splashing.

Operating Requirements:

- (a) If waste solvent is transferred, losses must remain at less than 20% by weight. Waste must be stored in covered containers.
- (b) The degreaser cover shall be closed when parts are not being handled in the cleaner.
- (c) Cleaned parts shall be drained until dripping stops.

Any cold cleaner shall be exempt from the control requirements set forth herein if the criteria of 401 KAR 59:185 Section 8 are met and a record of the applicability of the exemption is maintained by TMMK and submitted to the Division. If at any point in time the criteria of the exemption are not met, the cold cleaner shall be subject to the specific Operating Limitations set forth herein.



**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations:**

**401 KAR 59:010: §3** The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than twenty (20) percent opacity.

**Compliance Demonstration Method:**

Compliance with the opacity standard is assumed given the processes and activities associated with Quality Control.

**401 KAR 59:010 §3**

The emission rate of particulate matter from an affected facility shall not exceed 2.34 pounds per hour.

**Compliance Demonstration Method:**

Compliance with the mass standard is assumed given the processes and activities associated with Quality Control.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere of more than the following, as calculated on a monthly basis:

EMISSION UNIT	OPERATION	VOC LIMIT (lb/job)	PM LIMIT (lb/hr)
N/A	N/A	N/A	N/A

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Quality Control Operations of more than 5 tons per year of VOC emissions.

**Compliance Demonstration Method:**

VOC Value =  $\text{SUM} (U_i \times V_i \times E_i \times (1 - C_i \times F_i))$  ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency.

**3. Testing Requirements:**

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4.

**4. Specific Monitoring Requirements:**

The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

**5. Specific Recordkeeping Requirements:**

All periodic monitoring records shall be maintained for a period of not less than 5 years.

The permittee shall keep calendar month records of usage of all applicable raw materials. Following the end of each month, Volatile Organic Compounds (VOC) emissions and Particulate Matter (PM) emissions shall be calculated on a twelve-month rolling total and recorded. Following the end of each month, pounds per job limits for VOC and pounds per hour limits for PM shall be calculated and recorded. These records shall represent the most recent year and shall show compliance with VOC and PM emission limitations listed in this permit. These records shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.

- a. Records documenting the results of each opacity reading by EPA Reference Method 9 shall be maintained.
- b. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20% shall be maintained.

**6. Specific Reporting Requirements:**

The permittee shall submit summary monitoring reports every six (6) months containing monitoring information listed in Sections B.4 and B.5 of this permit. (See Section F.5 for specific reporting dates.)

**7. Specific Control Equipment Operating Conditions:**

The permittee shall install, maintain, and operate its control equipment in accordance with manufacturers' recommendations and/or good engineering practice.

**8. Alternate Operating Scenarios:**

N/A

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE  
REGULATIONS, AND OPERATING CONDITIONS**

**TOYOTA LOGISTICS**

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****Description and Applicable Regulations:**

401 KAR 59:010 and 401 KAR 51:017 apply to all affected facilities listed in the following table.

**TOYOTA LOGISTICS, Operations** include the following processes:

EMISSION UNIT	OPERATION	CONSTRUCTION COMMENCED	CONTROL EQUIPMENT	OTHER APPLICABLE REGULATIONS
L01	Repair Painting (Insignificant Activities List)	July 17, 1986	None	401 KAR 63:002
L02	Accessory Installation (Insignificant Activities List)	July 17, 1986	None	
L03	Shipping Preparation (Insignificant Activities List)	July 17, 1986	None	
L04	Non-Process Cleaning Activities	July 17, 1986	None	401 KAR 59:185

## **SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)**

### **Regulatory Details:**

401 KAR 51:017, Prevention of significant deterioration of air quality, applicable to a major stationary source or a major modification which

- (1) Commenced construction after September 22, 1982;
- (2) Emits a pollutant regulated by 42 USC 7401 to 7671q (Clean Air Act); and
- (3) Constructed in an area designated as attainment or unclassifiable for a pollutant as defined pursuant to 42 USC 7407(d)(1)(A)(ii) or (iii) (Section 107(d)(1)(A)(ii) or (iii) of the Clean Air Act). Area designations are contained in 40 CFR 81.318.

401 KAR 59:010, New Process Operations. The provisions of this regulation shall apply to each affected facility or source, associated with a process operation, which is not subject to another emission standard with respect to particulate in this chapter, commenced on or after July 2, 1975.

401 KAR 63:002, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks incorporating by reference 40 CFR 63.3080 to 63.3176 (Subpart IIII) applicable to those items listed in paragraphs (b)(1) through (4) of section 63.3082 of Subpart IIII. (Refer to Section D).

### **1. Operating Limitations:**

The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2.

Wherever practicable, the permittee should utilize work practices to minimize emissions from non-process cleaning activities. Refer to Section D.6 for requirements specific to Subpart IIII.

### **Specific Operating Limitations for Emission Unit L04:**

**401 KAR 59:185: § 4**, Cold Cleaners (applies to batch degreasers)

Control Equipment Specifications:

- (a) The cleaner shall be equipped with a cover and shall be designed so that it can be operated with one hand.
- (b) It shall also be equipped with a drainage system such that the solvent draining from the part will return to a reservoir. If the vapor pressure is greater than 32 mm Hg, then the system must be internal.
- (c) On all containers, a label must be on or near the cleaner.
- (d) The spray, if used, must be a liquid stream, not atomized, and must be under low pressure to minimize splashing.

Operating Requirements:

- (a) If waste solvent is transferred, losses must remain at less than 20% by weight. Waste must be stored in covered containers.
- (b) The degreaser cover shall be closed when parts are not being handled in the cleaner.
- (c) Cleaned parts shall be drained until dripping stops.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****1. Operating Limitations (Continued):**

Any cold cleaner shall be exempt from the control requirements set forth herein if the criteria of 401 KAR 59:185 Section 8 are met and a record of the applicability of the exemption is maintained by TMMK and submitted to the Division. If at any point in time the criteria of the exemption are not met, the cold cleaner shall be subject to the specific Operating Limitations set forth herein.

**2. Emission Limitations:**

**401 KAR 59:010: §3** The permittee shall not cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack associated with any affected facility which is equal to or greater than twenty (20) percent opacity.

**Compliance Demonstration Method:**

Compliance with the opacity standard is assumed given the processes and activities associated with Toyota Logistics.

**401 KAR 59:010 §3**

The emission rate of particulate matter from a control device or stack shall not exceed 2.34 pounds per hour.

**Compliance Demonstration Method:**

Compliance with the mass standard is assumed given the processes and activities associated with Toyota Logistics.

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere of more than the following, as calculated on a monthly basis:

EMISSION UNIT	OPERATION	VOC LIMIT (lb/job)	PM LIMIT (lb/hr)
N/A	N/A	N/A	N/A

**401 KAR 51:017:** The permittee shall not cause the discharge into the atmosphere from its Toyota Logistics Operations of more than 5 tons per year of VOC emissions.

**Compliance Demonstration Method:**

VOC Value =  $\text{SUM } (U_i \times V_i \times E_i \times (1 - C_i \times F_i))$  ,

$U_i$  = Usage of material "i",

$V_i$  = Volatile organic compound (VOC) content,

$E_i$  = VOC Emission Factor,

$F_i$  = Control efficiency,

$C_i$  = Collection efficiency.

**SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)****2. Emission Limitations(Continued):****40 CFR 63 Subpart IIII, § 63.3091 - Emission Limits for Existing Sources**

EMISSION UNITS	NESHAP AFFECTED OPERATIONS	EMISSION LIMIT
L01	Final Repair	Refer to Section D for Group Emission Limits.

**Compliance Demonstration Method:**

Refer to Section D.6.

**3. Testing Requirements:**

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 §4.

**4. Specific Monitoring Requirements:**

The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit. Refer to Section D.6 for requirements specific to Subpart IIII.

**5. Specific Recordkeeping Requirements:**

All periodic monitoring records shall be maintained for a period of not less than 5 years.

The permittee shall keep calendar month records of usage of all applicable raw materials. Following the end of each month, Volatile Organic Compounds (VOC) emissions and Particulate Matter (PM) emissions shall be calculated on a twelve-month rolling total and recorded. Following the end of each month, pounds per job limits for VOC and pounds per hour limits for PM shall be calculated and recorded. These records shall represent the most recent year and shall show compliance with VOC and PM emission limitations listed in this permit. These records shall be made available for inspection upon request by any duly authorized representatives of the Division for Air Quality.

**6. Specific Reporting Requirements:**

The permittee shall submit summary monitoring reports every six (6) months containing monitoring information listed in Sections B.4, B.5 and D.6 of this permit. (See Section F.5 for specific reporting dates.)

**7. Specific Control Equipment Operating Conditions:**

The permittee shall install, maintain, and operate its control equipment in accordance with manufacturers' recommendations and/or good engineering practice.

**8. Alternate Operating Scenarios:**

N/A

**SECTION C - INSIGNIFICANT ACTIVITIES**

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation.

	SHOP	EMISSION UNIT	DESCRIPTION	Applicable Regulations
1	Assembly 1	A05	Fluid Filling Operations	401 KAR 59:010
2		A07	Process Cleaning Activities	401 KAR 59:010
3		A08	Process Lubrication	401 KAR 59:010
4		A12	Miscellaneous Assembly Operations	401 KAR 59:010
5	Assembly 2	B05	Fluid Filling Operations	401 KAR 59:010
6		B07	Process Cleaning Activities	401 KAR 59:010
7		B08	Process Lubrication	401 KAR 59:010
8		B12	Miscellaneous Assembly Operations	401 KAR 59:010
9	Body Operations	C01	Die Construction	401 KAR 59:010
10		C11	Process Lubrication	401 KAR 59:010
11		C13	Fuel Tank Cleaning	401 KAR 59:010
12		C15	Resistance welders in NAPSC Building	401 KAR 59:010
13	Facilities Control	D02	Facilities Control Wastewater Pretreatment	401 KAR 59:010
14		D05	Facilities Control Cooling Towers	401 KAR 59:010
15		D07	Facilities Control Back-up Generators(4)	401 KAR 59:010
16		D07	Facilities Control Rental Back-up Generator(1)	401 KAR 59:010
17		D08	Combustion Sources < 1 MMBtu/Hr	401 KAR 59:010
18	Paint 1	E03	Metal Finish Line	401 KAR 59:010
19		E08	Inspection Lines	401 KAR 59:010
20		E10	Moon Roof Installation	401 KAR 59:010
21		E16	Robot Teaching Booth	401 KAR 59:010
22		E17	Two Tone Masking Booth	401 KAR 59:010
23	Paint 2	F01	Phosphate	401 KAR 59:010
24		F03	Metal Finishing Line	401 KAR 59:010
25		F08	Inspection Lines	401 KAR 59:010
26		F10	Moon Roof Installation	401 KAR 59:010
27		F16	Robot Teaching	401 KAR 59:010
28		F17	Two Tone Masking Booth	401 KAR 59:010
29	Plastics	G02	Steam Injection Molding	401 KAR 59:010
30		G05	Raw Material Supply	401 KAR 59:010
31		G21	Application of adhesion promoter	401 KAR 59:010
32		G23	Bumper Dry Sanding A/B	401 KAR 59:010
33		G25	Manifold Assembly Operation	401 KAR 59:010
34		G26	Intake Manifold Laser Welder	N/A
35	Power Train	H06	Corrosion Inhibitor Application	401 KAR 59:010
36		H09	Washing	401 KAR 59:010
37		H13	Operational Support	401 KAR 59:010
38		H14	Block Impregnation	401 KAR 59:010
39		H17	Final Assembly Operations	401 KAR 59:010
40	Production Control	K01	Dock Unloading Areas	401 KAR 59:010
41		K02	Parts Conveyance	401 KAR 59:010
42		K03	Shipping Preparation	401 KAR 59:010
43		K04	Fork Truck Repair Painting	401 KAR 59:010
44		K05	Cross Dock	401 KAR 59:010
45		K06	Battery Charging Stations	401 KAR 59:010
46	Quality Control	J01	Audit Lab	401 KAR 59:010



**SECTION C - INSIGNIFICANT ACTIVITIES**

47		J02	Raw Material Test Lab	401 KAR 59:010
48		J03	Test Track Operations	401 KAR 59:010
49	Toyota Logistics	L02	Accessory Installation	401 KAR 59:010
50		L03	Shipping Preparation	401 KAR 59:010

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

1. As required by Section 1b of the material incorporated by reference in 401 KAR 52:020, Section 10; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.
2. Emissions, as measured by methods referenced in 401 KAR 50:015, Section 1, shall not exceed the respective limitations specified herein.
3. The use of the Protocol for Determining Daily Volatile Organic Compound Emission Rates of Automobile and Light Duty Truck Operations (EPA-450/3-88-018) and / or the National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobile and Light-Duty Trucks (40 CFR Part 63 Subpart IIII) is authorized for performing the Compliance Demonstration Methods required by this permit.
4. The permittee shall conform to all applicable requirements prescribed by 40 CFR 60 Subpart MM. The Division has approved an alternative to the requirement of 40 CFR 60.395 that requires record keeping and reporting of the temperature difference across the catalyst bed of catalytic incinerators. This alternative is specified in 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobile and Light-Duty Trucks, which was finalized in the Federal Register on April 26, 2004. The minimum requirements of the inspection and maintenance plan are specified in Section B of this permit.

**Compliance Demonstration Method for 40 CFR 60 Subpart MM 60.392:**

$$G = D * E$$

$$K = (1 - \eta_{CO})$$

$$N = 1 - K$$

$$L = (K) * G$$

$$O = (N) * G$$

$$Q_i = L * (1 - \eta_{BI} * \eta_{BIC}) + O * (1 - \eta_{OI} * \eta_{OIC})$$

$$Q = \sum Q_i$$

Definition of variables:

D = Paint usage (liters/month)

E = VOC content (kg/liter)

G = Usage of VOC (kg)

K = VOC's to booth (weight fraction)

L = VOC's to booth (kg)

N = VOC's to oven (weight fraction)

O = VOC's to oven (kg)

Q = Controlled emission rate (kg) of VOC for the Emission Unit Line

$Q_i$  = Controlled emission rate (kg) of VOC per coating type (e.g., solidcoat, basecoat, etc.)

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)****Compliance Demonstration Method for 40 CFR 60 Subpart MM 60.392(Continued):**

$\eta_{BI}$  = Booth incinerator efficiency  
 $\eta_{BIC}$  = Booth incinerator capture efficiency  
 $\eta_{CO}$  = Carry over efficiency  
 $\eta_{OI}$  = Oven incinerator efficiency  
 $\eta_{OIC}$  = Oven incinerator capture efficiency

$$H = D*(F/100)$$

$$J_i = H*(\eta_{TE})$$

$$J = \sum J_i$$

Definition of variables:

D = Paint usage (liter)

F = Volume of solids (%)

H = Volume of solids applied (liter)

J = Volume of solids deposited for the Emission Unit Line

$J_i$  = Volume of solids deposited per coating type (e.g., solidcoat, basecoat, etc.)

$\eta_{TE}$  = Transfer efficiency

NSPS Value = **Q/J** (kilogram of VOC per liter of applied coating solids)

**5. Compliance Demonstration Method for Transfer Efficiency Testing:**

- (1) For affected facilities that use transfer efficiency in the determination of kilograms of VOC per liter of applied solids the permittee shall:
- (i) Use the transfer efficiency value specified in 40 CFR 60.393 for the application method used; or
  - (ii) Use a transfer efficiency value determined through engineering evaluations<sup>1</sup> or representative testing approved by the Division. Previous transfer efficiency tests may be accepted if the following conditions are met:
    - (a) The previous test must have been conducted using methods and conditions approved by the Division.
    - (b) Either no process or equipment changes have been made since the previous test was performed or the owner or operator must be able to demonstrate that the results of the performance test, reliably demonstrate compliance despite process or equipment changes.
    - (c) Either the required operating parameters were established in the previous test or sufficient data were collected in the previous test to establish the operating parameters.

<sup>1</sup>Engineering Evaluations shall be submitted to the permit review branch of the Division.

## **SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

### **Compliance Demonstration Method for Carry Over Efficiency Testing:**

- (2) For affected facilities that use carry over efficiency in the determination of VOC emissions the permittee shall:
- (i) Use a carry over efficiency value determined through engineering evaluations<sup>1</sup> or representative testing approved by the Division. Previous carry over efficiency tests may be accepted if the following conditions are met:
    - (a) The previous test must have been conducted using methods and conditions approved by the Division.
    - (b) Either no process or equipment changes have been made since the previous test was performed or the owner or operator must be able to demonstrate that the results of the performance test, reliably demonstrate compliance despite process or equipment changes.
    - (c) Either the required operating parameters were established in the previous test or sufficient data were collected in the previous test to establish the operating parameters.

### **Compliance Demonstration Method for Capture Efficiency Testing:**

- (3) For affected facilities that use capture efficiency in the determination of VOC emissions the permittee shall:
- (i) Use a capture efficiency value determined through engineering evaluations<sup>1</sup> or representative testing approved by the Division. Previous capture efficiency tests may be accepted if the following conditions are met:
    - (a) The previous test must have been conducted using methods and conditions approved by the Division.
    - (b) Either no process or equipment changes have been made since the previous test was performed or the owner or operator must be able to demonstrate that the results of the performance test, reliably demonstrate compliance despite process or equipment changes.
    - (c) Either the required operating parameters were established in the previous test or sufficient data were collected in the previous test to establish the operating parameters.

### **Compliance Demonstration Method for Standard Gallons per Job Calculation:**

- (4) The permittee shall notify the Division of any changes to the methodology for determining the standard gallons of material per job for the purposes of calculating emissions.

The term "Permit" as it is used in this document is defined by 401 KAR 52:020, Section 26, Cabinet Provisions and Procedures for Issuing Title V Permits, 2 (II) 11(b):

"For sources that are subject to 401 KAR 51:017 or 51:052, the final determination under PSD/NSR procedures shall be the proposed permit for Title V purposes."

<sup>1</sup>Engineering Evaluations shall be submitted to the permit review branch of the Division.

## **SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

6. The permittee shall conform to all applicable requirements prescribed by 40 CFR 63 Subpart IIII.

### **Subpart IIII – National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks**

§ 63.3080 What is the purpose of this subpart? – *This section is omitted.*

§ 63.3081 Am I subject to this subpart? – *This section is omitted.*

§ 63.3082 What parts of my plant does this subpart cover?

- (a) This subpart applies to each new, reconstructed, and existing affected source.
- (b) The affected source is the collection of all of the items listed in paragraphs (b)(1) through (4) of this section that are used for surface coating of new automobile or new light-duty truck bodies, or body parts for new automobiles or new light-duty trucks:
  - (1) All coating operations as defined in § 63.3176.
  - (2) All storage containers and mixing vessels in which coatings, thinners, and cleaning materials are stored or mixed.
  - (3) All manual and automated equipment and containers used for conveying coatings, thinners, and cleaning materials.
  - (4) All storage containers and all manual and automated equipment and containers used for conveying waste materials generated by a coating operation.
- (c) In addition, you may choose to include in your affected source, any coating operations, as defined in § 63.3176, which would otherwise be subject to the NESHAP for surface coating of miscellaneous metal parts and products (subpart MMMM of this part) or surface coating of plastic parts and products (subpart PPPP of this part) which apply coatings to parts intended for use in new automobiles or new light-duty trucks or as aftermarket repair or replacement parts for automobiles or light-duty trucks.
- (d) For all coating operations which you choose to add to your affected source pursuant to paragraph (c) of this section:
  - (1) All associated storage containers and mixing vessels in which coatings, thinners, and cleaning materials are stored or mixed; manual and automated equipment and containers used for conveying coatings, thinners, and cleaning materials; and storage containers and manual and automated equipment and containers used for conveying waste materials are also included in your affected source and are subject to the requirements of this subpart.
  - (2) All cleaning and purging of equipment associated with the added surface coating operations is subject to the requirements of this subpart.
  - (3) You must identify and describe all additions to the affected source made pursuant to paragraph (c) of this section in the initial notification required in § 63.3110 (b).
    - *All affected facilities that would otherwise be subject to subpart MMMM and subpart PPPP are included in the affected source subject to Subpart IIII.*
- (e) – *This subsection is omitted.*
- (f) – *This subsection is omitted.*
- (g) – *This subsection is omitted.*

§ 63.3083 When do I have to comply with this subpart? – *This section is omitted.*

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)****EMISSION LIMITATIONS**

§ 63.3090 What emission limits must I meet for a new or reconstructed affected source?

– *This section is omitted.*

§ 63.3091 What emission limits must I meet for an existing affected source?

(a) Except as provided in paragraph (b) of this section, you must limit combined organic HAP emissions to the atmosphere from electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082 (c) to no more than 0.072 kg/liter (0.60 lb/gal) of coating solids deposited during each month, determined according to the requirements of § 63.3161.

(b) – *This subsection is omitted.*

(c) You must limit average organic HAP emissions from all adhesive and sealer materials other than materials used as components of glass bonding systems to no more than 0.010 kg/kg (lb/lb) of adhesive and sealer material used during each month.

(d) You must limit average organic HAP emissions from all deadener materials to no more than 0.010 kg/kg (lb/lb) of deadener material used during each month.

(e) For coating and thinners used in coating operations added to the affected source pursuant to § 63.3082 (c):

(1) Adhesive and sealer materials that are not components of glass bonding systems are subject to and must be included in your demonstration of compliance for paragraph (c) of this section.

(2) Deadener materials are subject to and must be included in your demonstration of compliance for paragraph (d) of this section.

(3) All other coatings and thinners are subject to and must be included in your demonstration of compliance for paragraphs (a) or (b) of this section.

(f) If your facility has multiple paint lines (*e.g.*, two or more totally distinct paint lines each serving a distinct assembly line, or a facility with two or more paint lines sharing the same paint kitchen or mix room), then for the operations addressed in paragraph (a) and (b) of this section:

(1) You may choose to use a single grouping under paragraph (a) of this section for all of your electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations.

(2) – *This subsection is omitted.*

(3) – *This subsection is omitted.*

(4) – *This subsection is omitted.*

§ 63.3092 How must I control emissions from my electrodeposition primer system if I want to comply with the combined primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive emission limit? – *This section is omitted.*

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

§ 63.3093 What operating limits must I meet?

- (a) You are not required to meet any operating limits for any coating operation(s) without add-on controls.
- (b) Except as provided in paragraph (d) of this section, for any controlled coating operation(s), you must meet the operating limits specified in Table 1 to this subpart. These operating limits apply to the emission capture and add-on control systems on the coating operation(s) for which you use this option, and you must establish the operating limits during the performance test according to the requirements in § 63.3167. You must meet the operating limits at all times after you establish them.
- (c) – *This subsection is omitted.*
- (d) If you use an add-on control device other than those listed in Table 1 to this subpart, or wish to monitor an alternative parameter and comply with a different operating limit, you must apply to the Cabinet for approval of alternative monitoring under § 63.8(f).

§ 63.3094 What work practice standards must I meet?

- (a) [Reserved]
- (b) You must develop and implement a work practice plan to minimize organic HAP emissions from the storage, mixing, and conveying of coatings, thinners, and cleaning materials used in, and waste materials generated by, all coating operations for which emission limits are established under § 63.3090 (a) through (d) or § 63.3091 (a) through (d). The plan must specify practices and procedures to ensure that, at a minimum, the elements specified in paragraphs (b)(1) through (5) of this section are implemented.
  - (1) All organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be stored in closed containers.
  - (2) The risk of spills of organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be minimized.
  - (3) Organic-HAP-containing coatings, thinners, cleaning materials, and waste materials must be conveyed from one location to another in closed containers or pipes.
  - (4) Mixing vessels, other than day tanks equipped with continuous agitation systems, which contain organic-HAP-containing coatings and other materials must be closed except when adding to, removing, or mixing the contents.
  - (5) Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment.
- (c) You must develop and implement a work practice plan to minimize organic HAP emissions from cleaning and from purging of equipment associated with all coatings operations for which emission limits are established under § 63.3090 (a) through (d) or § 63.3091 (a) through (d).
  - (1) The plan shall, at a minimum address each of the operations listed in paragraphs (c)(1)(i) through (viii) of this section in which you use organic-HAP-containing materials or in which there is a potential for emission of organic HAP.

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

- (i) The plan must address vehicle body wipe emissions through one or more of the techniques listed in paragraphs (c)(1)(i)(A) through (E) of this section, or an approved alternative.
  - (A) Use of solvent-moistened wipes.
  - (B) Keeping solvent containers closed when not in use.
  - (C) Keeping wipe disposal/recovery containers closed when not in use.
  - (D) Use of tack-wipes.
  - (E) Use of solvent containing less than 1 percent organic HAP by weight.
- (ii) The plan must address coating line purging emissions through one or more of the techniques listed in paragraphs (c)(1)(ii)(A) through (D) of this section, or an approved alternative.
  - (A) Air/solvent push-out.
  - (B) Capture and reclaim or recovery of purge materials (excluding applicator nozzles/tips).
  - (C) Block painting to the maximum extent feasible.
  - (D) Use of low-HAP or no-HAP solvents for purge.
- (iii) The plan must address emissions from flushing of coating systems through one or more of the techniques listed in paragraphs (c)(1)(iii)(A) through (D) of this section, or an approved alternative.
  - (A) Keeping solvent tanks closed.
  - (B) Recovering and recycling solvents.
  - (C) Keeping recovered/recycled solvent tanks closed.
  - (D) Use of low-HAP or no-HAP solvents.
- (iv) The plan must address emissions from cleaning of spray booth grates through one or more of the techniques listed in paragraphs (c)(1)(iv)(A) through (E) of this section, or an approved alternative.
  - (A) Controlled burn-off.
  - (B) Rinsing with high-pressure water (in place).
  - (C) Rinsing with high-pressure water (off line).
  - (D) Use of spray-on masking or other type of liquid masking.
  - (E) Use of low-HAP or no-HAP content cleaners.
- (v) The plan must address emissions from cleaning of spray booth walls through one or more of the techniques listed in paragraphs (c)(1)(v)(A) through (E) of this section, or an approved alternative.
  - (A) Use of masking materials (contact paper, plastic sheet, or other similar type of material).
  - (B) Use of spray-on masking.
  - (C) Use of rags and manual wipes instead of spray application when cleaning walls.
  - (D) Use of low-HAP or no-HAP content cleaners.
  - (E) Controlled access to cleaning solvents.
- (vi) The plan must address emissions from cleaning of spray booth equipment through one or more of the techniques listed in paragraphs (c)(1)(vi)(A) through (E) of this section, or an approved alternative.
  - (A) Use of covers on equipment (disposable or reusable).
  - (B) Use of parts cleaners (off-line submersion cleaning).
  - (C) Use of spray-on masking or other protective coatings.
  - (D) Use of low-HAP or no-HAP content cleaners.
  - (E) Controlled access to cleaning solvents.



**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

- (vii) The plan must address emissions from cleaning of external spray booth areas through one or more of the techniques listed in paragraphs (c)(1)(vii)(A) through (F) of this section, or an approved alternative.
  - (A) Use of removable floor coverings (paper, foil, plastic, or similar type of material).
  - (B) Use of manual and/or mechanical scrubbers, rags, or wipes instead of spray application.
  - (C) Use of shoe cleaners to eliminate coating track-out from spray booths.
  - (D) Use of booties or shoe wraps.
  - (E) Use of low-HAP or no-HAP content cleaners.
  - (F) Controlled access to cleaning solvents.
- (viii) The plan must address emissions from housekeeping measures not addressed in paragraphs (c)(1)(i) through (vii) of this section through one or more of the techniques listed in paragraphs (c)(1)(viii)(A) through (C) of this section, or an approved alternative.
  - (A) Keeping solvent-laden articles (cloths, paper, plastic, rags, wipes, and similar items) in covered containers when not in use.
  - (B) Storing new and used solvents in closed containers.
  - (C) Transferring of solvents in a manner to minimize the risk of spills.
- (2) Notwithstanding the requirements of paragraphs (c)(1)(i) through (viii) of this section, if the type of coatings used in any facility with surface coating operations subject to the requirements of this section are of such a nature that the need for one or more of the practices specified under paragraphs (c)(1)(i) through (viii) is eliminated, then the plan may include approved alternative or equivalent measures that are applicable or necessary during cleaning of storage, conveying, and application equipment.
- (d) As provided in § 63.6(g), we the Environmental Protection Agency (EPA), may choose to grant you permission to use an alternative to the work practice standards in this section.
- (e) The work practice plans developed in accordance with paragraphs (b) and (c) of this section are not required to be incorporated in your title V permit. Any revisions to the work practice plans developed in accordance with paragraphs (b) and (c) of this section do not constitute revisions to your title V permit.
- (f) Copies of the current work practice plans developed in accordance with paragraphs (b) and (c) of this section, as well as plans developed within the preceding 5 years must be available onsite for inspection and copying by the Division.

**GENERAL COMPLIANCE REQUIREMENTS**

§ 63.3100 What are my general requirements for complying with this subpart?

- (a) You must be in compliance with the emission limitations in §§ 63.3090 and 63.3091 at all times, as determined on a monthly basis.
- (b) The coating operations must be in compliance with the operating limits for emission capture systems and add-on control devices required by § 63.3093 at all times except during periods of startup, shutdown, and malfunction.
- (c) You must be in compliance with the work practice standards in § 63.3094 at all times.
- (d) You must always operate and maintain your affected source including all air pollution control and monitoring equipment you use for purposes of complying with this subpart according to the provisions of § 63.6(e)(1)(i).

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

- (e) You must maintain a log detailing the operation and maintenance of the emission capture systems, add-on control devices, and continuous parameter monitoring systems (CPMS) during the period between the compliance date specified for your affected source in § 63.3083 and the date when the initial emission capture system and add-on control device performance tests have been completed, as specified in § 63.3160.
- (f) If your affected source uses emission capture systems and add-on control devices, you must develop and implement a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in § 63.6 (e)(3). The SSMP must address startup, shutdown, and corrective actions in the event of a malfunction of the emission capture system or the add-on control devices.

§ 63.3101 What parts of the General Provisions apply to me?

Table 2 to this subpart shows which parts of the General Provisions in §§ 63.1 through 63.15 apply to you. *Table 2 is not included in the permit; refer to 40 CFR 63, Subpart III.*

**NOTIFICATIONS, REPORTS, AND RECORDS**

§ 63.3110 What notifications must I submit?

- (a) *General.* You must submit the notifications in §§ 63.7(b) and (c), 63.8(f)(4), and 63.9(b) through (e) and (h) that apply to you by the dates specified in those sections, except as provided in paragraphs (b) and (c) of this section.
- (b) *Initial notification – This subsection is omitted.*
- (c) *Notification of compliance status.* If you have an existing source, you must submit the Notification of Compliance Status required by § 63.9(h) no later than 30 days following the end of the initial compliance period described in § 63.3160. If you have a new source, you must submit the Notification of Compliance Status required by § 63.9(h) no later than 60 days after the first day of the first full month following completion of all applicable performance tests. The Notification of Compliance Status must contain the information specified in paragraphs (c)(1) through (12) of this section and § 63.9(h).
  - (1) Company name and address.
  - (2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
  - (3) Date of the report and beginning and ending dates of the reporting period. The reporting period described is the initial compliance period described in § 63.3160 that applies to your affected source.
  - (4) Identification of the compliance option specified in § 63.3090(a) or (b) or § 63.3091 (a) or (b) that you used for electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c) in the affected source during the initial compliance period.
  - (5) Statement of whether or not the affected source achieved the emission limitations for the initial compliance period.

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

- (6) If you had a deviation, include the information in paragraphs (c)(6)(i) and (ii) of this section.
- (i) A description and statement of the cause of the deviation.
  - (ii) If you failed to meet any of the applicable emission limits in § 63.3090 or § 63.3091, include all the calculations you used to determine the applicable emission rate or applicable average organic HAP content for the emission limit(s) that you failed to meet. You do not need to submit information provided by the materials suppliers or manufacturers, or test reports.
- (7) All data and calculations used to determine the monthly average mass of organic HAP emitted per volume of applied coating solids from:
- (i) – *This subsection is omitted.*
  - (ii) The combined electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c).
- (8) – *This subsection is omitted.*
- (9) All data and calculations used to determine the monthly mass average HAP content of materials subject to the emission limits of § 63.3090(c) or (d) or the emission limits of § 63.3091(c) or (d).
- (10) All data and calculations used to determine the transfer efficiency for primer-surfacer and topcoat coatings, and for all coatings, except for deadener and for adhesive and sealer that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c).
- (11) You must include the information specified in paragraphs (c)(11)(i) through (iii) of this section.
- (i) For each emission capture system, a summary of the data and copies of the calculations supporting the determination that the emission capture system is a permanent total enclosure (PTE) or a measurement of the emission capture system efficiency. Include a description of the procedure followed for measuring capture efficiency, summaries of any capture efficiency tests conducted, and any calculations supporting the capture efficiency determination. If you use the data quality objective (DQO) or lower confidence limit (LCL) approach, you must also include the statistical calculations to show you meet the DQO or LCL criteria in appendix A to subpart KK of this part. You do not need to submit complete test reports.
  - (ii) A summary of the results of each add-on control device performance test. You do not need to submit complete test reports unless requested.
  - (iii) A list of each emission capture system's and add-on control device's operating limits and a summary of the data used to calculate those limits.
- (12) A statement of whether or not you developed and implemented the work practice plans required by § 63.3094 (b) and (c).

§ 63.3120 What reports must I submit?

- (a) *Semiannual compliance reports.* You must submit semiannual compliance reports for each affected source according to the requirements of paragraphs (a)(1) through (9) of this section. The semiannual compliance reporting requirements may be satisfied by reports required under other parts of the CAA, as specified in paragraph (a)(2) of this section.

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

- (1) *Dates.* Unless the Division has approved a different schedule for submission of reports under § 63.10(a), you must prepare and submit each semiannual compliance report according to the dates specified in paragraphs (a)(1)(i) through (iv) of this section.
  - (i) The first semiannual compliance report must cover the first semiannual reporting period which begins the day after the end of the initial compliance period described in § 63.3160 that applies to your affected source and ends on June 30 or December 31, whichever occurs first following the end of the initial compliance period.
  - (ii) Each subsequent semiannual compliance report must cover the subsequent semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
  - (iii) Each semiannual compliance report must be postmarked or delivered no later than July 31 or January 31, following the end of the semiannual reporting period.
  - (iv) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the date specified in paragraph (a)(1)(iii) of this section.
- (2) *Inclusion with title V report.* If you have obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71, you must report all deviations as defined in this subpart in the semiannual compliance report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A). If you submit a semiannual compliance report pursuant to this section along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the semiannual compliance report includes all required information concerning deviations from any emission limit, operating limit, or work practice in this subpart, its submission shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a semiannual compliance report shall not otherwise affect any obligation you may have to report deviations from permit requirements to the Division.
- (3) *General requirements.* The semiannual compliance report must contain the information specified in paragraphs (a)(3)(i) through (iv) of this section, and the information specified in paragraphs (a)(4) through (9) and (c)(1) of this section that are applicable to your affected source.
  - (i) Company name and address.
  - (ii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
  - (iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31.
  - (iv) Identification of the compliance option specified in § 63.3090(b) or § 63.3091(b) that you used for electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations plus all coatings and thinners, except for deadener materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c) in the affected source during the initial compliance period.

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

- (4) *No deviations.* If there were no deviations from the emission limitations, operating limits, or work practices in §§ 63.3090, 63.3091, 63.3092, 63.3093, and 63.3094 that apply to you, the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period. If you used control devices to comply with the emission limits, and there were no periods during which the CPMS were out of control as specified in § 63.8(c)(7), the semiannual compliance report must include a statement that there were no periods during which the CPMS were out of control during the reporting period.
- (5) *Deviations: adhesive, sealer, and deadener.* If there was deviation from the applicable emission limits in § 63.3090 (c) and (d) or § 63.3091 (c) and (d), the semiannual compliance report must contain the information in paragraphs (a)(5)(i) through (iv) of this section.
- (i) The beginning and ending dates of each month during which the monthly average organic HAP content exceeded the applicable emission limit in § 63.3090 (c) and (d) or § 63.3091 (c) and (d).
  - (ii) The volume and organic HAP content of each material used that is subject to the applicable organic HAP content limit.
  - (iii) The calculation used to determine the average monthly organic HAP content for the month in which the deviation occurred.
  - (iv) The reason for the deviation.
- (6) *Deviations: combined electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer and glass bonding adhesive, or combined primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c).* If there was a deviation from the applicable emission limits in § 63.3090 (a) or (b) or § 63.3091(a) or (b), the semiannual compliance report must contain the information in paragraphs (a)(6)(i) through (xiv) of this section.
- (i) The beginning and ending dates of each month during which the monthly organic HAP emission rate from combined electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082 (c) exceeded the applicable emission limit in § 63.3090 (a) or § 63.3091(a); or the monthly organic HAP emission rate from combined primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c) exceeded the applicable emission limit § 63.3090 (b) or § 63.3091 (b).
  - (ii) The calculation used to determine the monthly organic HAP emission rate in accordance with § 63.3161 or § 63.3171. You do not need to submit the background data supporting these calculations, for example information provided by materials suppliers or manufacturers, or test reports.
  - (iii) The date and time that any malfunctions of the capture system or add-on control devices used to control emissions from these operations started and stopped.
  - (iv) A brief description of the CPMS.
  - (v) The date of the latest CPMS certification or audit.

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

- (vi) The date and time that each CPMS was inoperative, except for zero (low-level) and high level checks.
  - (vii) The date and time period that each CPMS was out of control, including the information in § 63.8 (c)(8).
  - (viii) The date and time period of each deviation from an operating limit in Table 1 to this subpart; date and time period of each bypass of an add-on control device; and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.
  - (ix) A summary of the total duration and the percent of the total source operating time of the deviations from each operating limit in Table 1 to this subpart and the bypass of each add-on control device during the semiannual reporting period.
  - (x) A breakdown of the total duration of the deviations from each operating limit in Table 1 to this subpart and bypasses of each add-on control device during the semiannual reporting period into those that were due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.
  - (xi) A summary of the total duration and the percent of the total source operating time of the downtime for each CPMS during the semiannual reporting period.
  - (xii) A description of any changes in the CPMS, coating operation, emission capture system, or add-on control devices since the last semiannual reporting period.
  - (xiii) For each deviation from the work practice standards, a description of the deviation, the date and time period of the deviation, and the actions you took to correct the deviation.
  - (xiv) A statement of the cause of each deviation.
- (7) *Deviations: separate electrodeposition primer organic HAP content limit.*  
– This subsection is omitted.
- (8) *Deviations: separate electrodeposition primer bake oven capture and control limitations.*  
– This subsection is omitted.
- (9) *Deviations: work practice plans.* If there was a deviation from an applicable work practice plan developed in accordance with § 63.3094(b) or (c), the semiannual compliance report must contain the information in paragraphs (a)(9)(i) through (iii) of this section.
- (i) The time period during which each deviation occurred.
  - (ii) The nature of each deviation.
  - (iii) The corrective action(s) taken to bring the applicable work practices into compliance with the work practice plan.
- (b) *Performance test reports.* If you use add-on control devices, you must submit reports of performance test results for emission capture systems and add-on control devices no later than 60 days after completing the tests as specified in § 63.10 (d)(2). You must submit reports of transfer efficiency tests no later than 60 days after completing the tests as specified in § 63.10(d)(2).
- (c) *Startup, shutdown, and malfunction reports.* If you used add-on control devices and you had a startup, shutdown, or malfunction during the semiannual reporting period, you must submit the reports specified in paragraphs (c)(1) and (2) of this section.
- (1) If your actions were consistent with your SSMP, you must include the information specified in § 63.10(d) in the semiannual compliance report required by paragraph (a) of this section.

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

- (2) If your actions were not consistent with your SSMP, you must submit an immediate startup, shutdown, and malfunction report as described in paragraphs (c)(2)(i) and (ii) of this section.
- (i) You must describe the actions taken during the event in a report delivered by facsimile, telephone, or other means to the Cabinet within 2 working days after starting actions that are inconsistent with the plan.
  - (ii) You must submit a letter to the Cabinet within 7 working days after the end of the event, unless you have made alternative arrangements with the Cabinet as specified in § 63.10 (d)(5)(ii). The letter must contain the information specified in § 63.10 (d)(5)(ii).

§ 63.3130 What records must I keep?

You must collect and keep records of the data and information specified in this section. Failure to collect and keep these records is a deviation from the applicable standard.

- (a) A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report.
- (b) A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP, the density and the volume fraction of coating solids for each coating, the mass fraction of organic HAP and the density for each thinner, and the mass fraction of organic HAP for each cleaning material. If you conducted testing to determine mass fraction of organic HAP, density, or volume fraction of coating solids, you must keep a copy of the complete test report. If you use information provided to you by the manufacturer or supplier of the material that was based on testing, you must keep the summary sheet of results provided to you by the manufacturer or supplier. If you use the results of an analysis conducted by an outside testing lab, you must keep a copy of the test report. You are not required to obtain the test report or other supporting documentation from the manufacturer or supplier.
- (c) For each month, the records specified in paragraphs (c)(1) through (6) of this section.
  - (1) For each coating used for electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations and for each coating, except for deadener and for adhesive and sealer that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082 (c), a record of the volume used in each month, the mass fraction organic HAP content, the density, and the volume fraction of solids.
  - (2) For each thinner used for electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations and for each thinner, except for thinner used for deadener and for adhesive and sealer that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c), a record of the volume used in each month, the mass fraction organic HAP content, and the density.
  - (3) For each deadener material and for each adhesive and sealer material, a record of the mass used in each month and the mass organic HAP content.

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

- (4) A record of the calculation of the organic HAP emission rate for electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c) for each month if subject to the emission limit of § 63.3090 (a) or § 63.3091 (a). This record must include all raw data, algorithms, and intermediate calculations. If the guidelines presented in the "Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations," EPA-450/3-88-018 (Docket ID No. OAR-2002-0093 and Docket ID No. A-2001-22), are used, you must keep records of all data input to this protocol. If these data are maintained as electronic files, the electronic files, as well as any paper copies must be maintained. These data must be provided to the Division on request on paper, and in (if calculations are done electronically) electronic form.
- (5) *This subsection is omitted.*
- (6) A record, for each month, of the calculation of the average monthly mass organic HAP content of:
- (i) Sealers and adhesives; and
  - (ii) Deadeners.
- (d) A record of the name and volume of each cleaning material used during each month.
- (e) A record of the mass fraction of organic HAP for each cleaning material used during each month.
- (f) A record of the density for each cleaning material used during each month.
- (g) A record of the date, time, and duration of each deviation, and for each deviation, a record of whether the deviation occurred during a period of startup, shutdown, or malfunction.
- (h) The records required by § 63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.
- (i) For each capture system that is a PTE, the data and documentation you used to support a determination that the capture system meets the criteria in Method 204 of appendix M to 40 CFR part 51 for a PTE and has a capture efficiency of 100 percent, as specified in § 63.3165(a).
- (j) For each capture system that is not a PTE, the data and documentation you used to determine capture efficiency according to the requirements specified in §§63.3164 and 63.3165(b) though (g), including the records specified in paragraphs (j)(1) through (4) of this section that apply to you.
- (1) *Records for a liquid-to-uncaptured-gas protocol using a temporary total enclosure or building enclosure. – This subsection is omitted.*
- (2) *Records for a gas-to-gas protocol using a temporary total enclosure or a building enclosure.* Records of the mass of TVH emissions captured by the emission capture system, as measured by Method 204B or C of appendix M to 40 CFR part 51, at the inlet to the add-on control device, including a copy of the test report. Records of the mass of TVH emissions not captured by the capture system that exited the temporary total enclosure or building enclosure during each capture efficiency test run, as measured by Method 204D or E of appendix M to 40 CFR part 51, including a copy of the test report. Records documenting that the enclosure used for the capture efficiency test met the criteria in Method 204 of appendix M to 40 CFR part 51 for either a temporary total enclosure or a building enclosure.



**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

- (3) *Records for panel tests.* Records needed to document a capture efficiency determination using a panel test as described in § 63.3165(e) and (g), including a copy of the test report and calculations performed to convert the panel test results to percent capture efficiency values.
- (4) *Records for an alternative protocol.* – *This subsection is omitted.*
- (k) The records specified in paragraphs (k) (1) and (2) of this section for each add-on control device organic HAP destruction or removal efficiency determination as specified in § 63.3166.
- (1) Records of each add-on control device performance test conducted according to §§ 63.3164 and 63.3166.
- (2) Records of the coating operation conditions during the add-on control device performance test showing that the performance test was conducted under representative operating conditions.
- (l) Records of the data and calculations you used to establish the emission capture and add-on control device operating limits as specified in § 63.3167 and to document compliance with the operating limits as specified in Table 1 to this subpart.
- (m) Records of the data and calculations you used to determine the transfer efficiency for primer-surfacer and topcoat coatings and for all coatings, except for deadener and for adhesive and sealer that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c).
- (n) A record of the work practice plans required by § 63.3094(b) and (c) and documentation that you are implementing the plans on a continuous basis. Appropriate documentation may include operational and maintenance records, records of documented inspections, and records of internal audits.
- (o) Records pertaining to the design and operation of control and monitoring systems must be maintained on-site for the life of the equipment in a location readily available to plant operators and inspectors.

§ 63.3131 In what form and for how long must I keep my records?

- (a) Your records must be in a form suitable and readily available for expeditious review according to § 63.10(b)(1). Where appropriate, the records may be maintained as electronic spreadsheets or as a database.
- (b) Except as provided in § 63.3130(o) you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record, as specified in § 63.10(b)(1).
- (c) Except as provided in § 63.3130(o) you must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to § 63.10(b)(1). You may keep the records off site for the remaining 3 years.

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)****COMPLIANCE REQUIREMENTS FOR ADHESIVE, SEALER, AND DEADENER**

§ 63.3150 By what date must I conduct the initial compliance demonstration?

You must complete the initial compliance demonstration for the initial compliance period according to the requirements of § 63.3151. The initial compliance period begins on April 26, 2007 and ends on May 31, 2007. You must determine the mass average organic HAP content of the materials used each month for each group of materials for which an emission limitation is established in § 63.3090(c) and (d) or § 63.3091(c) and (d). The initial compliance demonstration includes the calculations according to § 63.3151 and supporting documentation showing that during the initial compliance period, the mass average organic HAP content for each group of materials was equal to or less than applicable emission limits in § 63.3090(c) and (d) or § 63.3091(c) and (d).

§ 63.3151 How do I demonstrate initial compliance with the emission limitations?

You must separately calculate the mass average organic HAP content of the materials used during the initial compliance period for each group of materials for which an emission limit is established in § 63.3090(c) and (d) or § 63.3091(c) and (d). If every individual material used within a group of materials meets the emission limit for that group of materials, you may demonstrate compliance with that emission limit by documenting the name and the organic HAP content of each material used during the initial compliance period. If any individual material used within a group of materials exceeds the emission limit for that group of materials, you must determine the mass average organic HAP content according to the procedures of paragraph (d) of this section.

- (a) *Determine the mass fraction of organic HAP for each material used.* You must determine the mass fraction of organic HAP for each material used during the compliance period by using one of the options in paragraph (a)(1) through (5) of this section.
- (1) *Method 311 (appendix A to 40 CFR part 63).* You may use Method 311 for determining the mass fraction of organic HAP. Use the procedures specified in paragraphs (a)(1)(i) and (ii) of this section when performing a Method 311 test.
  - (i) Count each organic HAP that is measured to be present at 0.1 percent by mass or more for OSHA-defined carcinogens, as specified in 29 CFR 1910.1200(d)(4), and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA-defined carcinogen) is measured to be 0.5 percent of the material by mass, you do not have to count it. Express the mass fraction of each organic HAP you count as a value truncated to four places after the decimal point (e.g., 0.3791).
  - (ii) Calculate the total mass fraction of organic HAP in the test material by adding up the individual organic HAP mass fractions and truncating the result to three places after the decimal point (e.g., 0.7638 truncates to 0.763).
- (2) *Method 24 (appendix A to 40 CFR part 60).* For coatings, you may use Method 24 to determine the mass fraction of nonaqueous volatile matter and use that value as a substitute for mass fraction of organic HAP.
- (3) *Alternative method.* You may use an alternative test method for determining the mass fraction of organic HAP once the Cabinet has approved it. You must follow the procedure in § 63.7(f) to submit an alternative test method for approval.

## SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

- (4) *Information from the supplier or manufacturer of the material.* You may rely on information other than that generated by the test methods specified in paragraphs (a)(1) through (3) of this section, such as manufacturer's formulation data, if it represents each organic HAP that is present at 0.1 percent by mass or more for OSHA-defined carcinogens, as specified in 29 CFR 1910.1200(d)(4), and 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA-defined carcinogen) is 0.5 percent by mass, you do not have to count it. If there is a disagreement between such information and results of a test conducted according to paragraphs (a)(1) through (3) of this section, then the test method results will take precedence, unless after consultation, the facility demonstrates to the satisfaction of the Cabinet that the facility's data are correct.
- (5) *Solvent blends.* Solvent blends may be listed as single components for some materials in data provided by manufacturers or suppliers. Solvent blends may contain organic HAP which must be counted toward the total organic HAP mass fraction of the materials. When neither test data nor manufacturer's data for solvent blends are available, you may use the default values for the mass fraction of organic HAP in the solvent blends listed in Table 3 or 4 to this subpart. If you use the tables, you must use the values in Table 3 for all solvent blends that match Table 3 entries, and you may only use Table 4 if the solvent blends in the materials you use do not match any of the solvent blends in Table 3 and you only know whether the blend is aliphatic or aromatic. However, if the results of a Method 311 test indicate higher values than those listed in Table 3 or 4 to this subpart, the Method 311 results will take precedence, unless after consultation, the facility demonstrates to the satisfaction of the Cabinet that the data from Table 3 or 4 are correct.
- (b) *Determine the density of each material used.* Determine the density of each material used during the compliance period from test results using ASTM Method D1475-98 (Reapproved 2003), "Standard Test Method for Density of Liquid Coatings, Inks, and Related Products" (incorporated by reference, see § 63.14), or for powder coatings, test method A or test method B of ASTM Method D5965-02, "Standard Test Methods for Specific Gravity of Coating Powders," (incorporated by reference, see § 63.14), or information from the supplier or manufacturer of the material. If there is disagreement between ASTM Method D1475-98 (Reapproved 2003) test results or ASTM Method D5965-02, test method A or test method B test results and the supplier's or manufacturer's information, the test results will take precedence unless after consultation the facility demonstrates to the satisfaction of the Cabinet that the facility's data are correct.
- (c) *Determine the volume of each material used.* Determine the volume (liters) of each material used during each month by measurement or usage records.
- (d) *Determine the mass average organic HAP content for each group of materials.* Determine the mass average organic HAP content of the materials used during the initial compliance period for each group of materials for which an emission limit is established in § 63.3090(c) and (d) or § 63.3091(c) and (d), using Equations 1 and 2 of this section.
- (1) Calculate the mass average organic HAP content of adhesive and sealer materials other than components of the glass bonding system used in the initial compliance period using Equation 1 of this section:

$$C_{avg,as} = \frac{\sum_{j=1}^r (Vol_{as,j})(D_{as,j})(w_{as,j})}{\sum_{j=1}^r (Vol_{as,j})(D_{as,j})} \quad (\text{Eq. 1})$$

## SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

Where:

$C_{avg,as}$  = Mass average organic HAP content of adhesives and sealer materials used kg/kg.

$Vol_{as,j}$  = Volume of adhesive or sealer material, j, used, liters.

$D_{as,j}$  = Density of adhesive or sealer material, j, used, kg per liter.

$W_{as,j}$  = Mass fraction of organic HAP in adhesive or sealer material, j, kg/kg.

r = Number of adhesive and sealer materials used.

- (2) Calculate the mass average organic HAP content of deadener materials used in the initial compliance period using Equation 2 of this section:

$$C_{avg,d} = \frac{\sum_{m=1}^s (Vol_{d,m})(D_{d,m})(W_{d,m})}{\sum_{m=1}^s (Vol_{d,m})(D_{d,m})} \quad (\text{Eq. 2})$$

Where:

$C_{avg,d}$  = Mass average organic HAP content of deadener material used, kg/kg.

$V_{old,m}$  = Volume of deadener material, m, used, liters.

$D_{d,m}$  = Density of deadener material, m, used, kg per liter.

$W_{d,m}$  = Mass fraction of organic HAP in deadener material, m, kg/kg.

s = Number of deadener materials used.

- (e) Compliance demonstration. The mass average organic HAP content for the compliance period must be less than or equal to the applicable emission limit in § 63.3090(c) and (d) or § 63.3091(c) and (d). You must keep all records as required by §§ 63.3130 and 63.3131. As part of the Notification of Compliance Status required by § 63.3110, you must submit a statement that the coating operations were in compliance with the emission limitations during the initial compliance period because the mass average organic HAP content was less than or equal to the applicable emission limits in § 63.3090(c) and (d) or § 63.3091(c) and (d), determined according to this section.

§ 63.3152 How do I demonstrate continuous compliance with the emission limitations?

- (a) To demonstrate continuous compliance, the mass average organic HAP content for each compliance period, determined according to § 63.3151(a) through (d), must be less than or equal to the applicable emission limit in § 63.3090(c) and (d) or § 63.3091(c) and (d). A compliance period consists of 1 month. Each month after the end of the initial compliance period described in § 63.3150 is a compliance period consisting of that month.
- (b) If the mass average organic HAP emission content for any compliance period exceeds the applicable emission limit in § 63.3090(c) and (d) or § 63.3091(c) and (d), this is a deviation from the emission limitations for that compliance period and must be reported as specified in §§ 63.3110(c)(6) and 63.3120(a)(5).
- (c) You must maintain records as specified in §§ 63.3130 and 63.3131.

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)****COMPLIANCE REQUIREMENTS FOR THE COMBINED ELECTRODEPOSITION PRIMER, PRIMER-SURFACER, TOPCOAT, FINAL REPAIR, GLASS BONDING PRIMER, AND GLASS BONDING ADHESIVE EMISSION LIMITATIONS**

§ 63.3160 By what date must I conduct performance tests and other initial compliance demonstrations? – *This section is omitted.*

§ 63.3161 How do I demonstrate initial compliance?

- (a) You must meet all of the requirements of this section to demonstrate initial compliance. To demonstrate initial compliance, the organic HAP emissions from the combined electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c) must meet the applicable emission limitation in § 63.3090(a) or § 63.3091(a).
- (b) *Compliance with operating limits.* Except as provided in § 63.3160(a)(4), you must establish and demonstrate continuous compliance during the initial compliance period with the operating limits required by § 63.3093, using the procedures specified in §§ 63.3167 and 63.3168.
- (c) *Compliance with work practice requirements.* You must develop, implement, and document your implementation of the work practice plans required by § 63.3094(b) and (c) during the initial compliance period, as specified in § 63.3130.
- (d) *Compliance with emission limits.* You must follow the procedures in paragraphs (e) through (o) of this section to demonstrate compliance with the applicable emission limit in § 63.3090(a) or § 63.3091(a). You may also use the guidelines presented in “Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-duty Truck Topcoat Operations,” EPA-450/3-88-018 (Docket ID No. OAR-2002-0093 and Docket ID No. A-2001-22) in making this demonstration.
- (e) *Determine the mass fraction of organic HAP, density and volume used.* Follow the procedures specified in § 63.3151(a) through (c) to determine the mass fraction of organic HAP and the density and volume of each coating and thinner used during each month.
- (f) *Determine the volume fraction of coating solids for each coating.* You must determine the volume fraction of coating solids (liter of coating solids per liter of coating) for each coating used during the compliance period by a test or by information provided by the supplier or the manufacturer of the material, as specified in paragraphs (f)(1) and (2) of this section. If test results obtained according to paragraph (f)(1) of this section do not agree with the information obtained under paragraph (f)(2) of this section, the test results will take precedence unless after consultation, the facility demonstrates to the satisfaction of the Cabinet that the facility’s data are correct.
- (1) *ASTM Method D2697-86 (Reapproved 1998) or ASTM Method D6093-97 (Reapproved 2003).* You may use ASTM Method D2697-86 (Reapproved 1998), “Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings” (incorporated by reference, see § 63.14), or ASTM Method D6093-97 (Reapproved 2003), “Standard Test Method for Percent Volume Nonvolatile Matter in Clear or Pigmented Coatings Using a Helium Gas Pycnometer” (incorporated by reference, see § 63.14), to determine the volume fraction of coating solids for each coating. Divide the nonvolatile volume percent obtained with the methods by 100 to calculate volume fraction of coating solids.

## SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

- (2) *Information from the supplier or manufacturer of the material.* You may obtain the volume fraction of coating solids for each coating from the supplier or manufacturer.
- (g) *Determine the transfer efficiency for each coating.* You must determine the transfer efficiency for each primer-surfacer and topcoat coating, and for all coatings, except for deadener and for adhesive and sealer that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c) using ASTM Method D5066-91 (Reapproved 2001), “Standard Test Method for Determination of the Transfer Efficiency Under Production Conditions for Spray Application of Automotive Paints-Weight Basis” (incorporated by reference, see § 63.14), or the guidelines presented in “Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations,” EPA-450/3-88-018 (Docket ID No. OAR-2002-0093 and Docket ID No. A-2001-22). You may conduct transfer efficiency testing on representative spray booths as described in “Protocol for Determining Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations,” EPA-450/3-88-018 (Docket ID No. OAR-2002-0093 and Docket ID No. A-2001-22). You may assume 100 percent transfer efficiency for electrodeposition primer coatings, glass bonding primers, and glass bonding adhesives. For final repair coatings, you may assume 40 percent transfer efficiency for air atomized spray and 55 percent transfer efficiency for electrostatic spray and high volume, low pressure spray.
- (h) *Calculate the total mass of organic HAP emissions before add-on controls.* Calculate the total mass of organic HAP emissions before consideration of add-on controls from all coatings and thinners used during each month in the combined electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c) using Equation 1 of this section:

$$H_{BC} = A + B \quad (\text{Eq. 1})$$

Where:

$H_{BC}$  = Total mass of organic HAP emissions before consideration of add-on controls during the month, kg.

A = Total mass of organic HAP in the coatings used during the month, kg, as calculated in Equation 1A of this section.

B = Total mass of organic HAP in the thinners used during the month, kg, as calculated in Equation 1B of this section.

- (1) Calculate the kg organic HAP in the coatings used during the month using Equation 1A of this section:

$$A = \sum_{i=1}^m (Vol_{c,i}) (D_{c,i}) (W_{c,i}) \quad (\text{Eq. 1A})$$

Where:

A = Total mass of organic HAP in the coatings used during the month, kg.

$Vol_{c,i}$  = Total volume of coating, i, used during the month, liters.

$D_{c,i}$  = Density of coating, i, kg coating per liter coating.

$W_{c,i}$  = Mass fraction of organic HAP in coating, i, kg organic HAP per kg coating.

m = Number of different coatings used during the month.

## SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

- (2) Calculate the kg of organic HAP in the thinners used during the month using Equation 1B of this section:

$$B = \sum_{j=1}^n (Vol_{t,j})(D_{t,j})(W_{t,j}) \quad (\text{Eq. 1B})$$

Where:

B = Total mass of organic HAP in the thinners used during the month, kg.

Vol<sub>t,j</sub> = Total volume of thinner, j, used during the month, liters.

D<sub>t,j</sub> = Density of thinner, j, kg per liter.

W<sub>t,j</sub> = Mass fraction of organic HAP per kg thinner.

n = Number of different thinners used during the month.

- (i) *Calculate the organic HAP emission reduction for each controlled coating operation.* Determine the mass of organic HAP emissions reduced for each controlled coating operation during each month. The emission reduction determination quantifies the total organic HAP emissions captured by the emission capture system and destroyed or removed by the add-on control device. Use the procedures in paragraph (j) of this section to calculate the mass of organic HAP emission reduction for each controlled coating operation using an emission capture system and add-on control device other than a solvent recovery system for which you conduct liquid-liquid material balance. For each controlled coating operation using a solvent recovery system for which you conduct a liquid-liquid material balance, use the procedures in paragraph (k) of this section to calculate the organic HAP emission reduction.
- (j) *Calculate the organic HAP emission reduction for each controlled coating operation not using liquid-liquid material balances.* For each controlled coating operation using an emission capture system and add-on control device other than a solvent recovery system for which you conduct liquid-liquid material balances, calculate the mass of organic HAP emission reduction for the controlled coating operation, excluding all periods of time in which a deviation, including a deviation during a period of startup, shutdown, or malfunction, from an operating limit or from any CPMS requirement for the capture system or control device serving the controlled coating operation occurred, during the month using Equation 2 of this section. The calculation of mass of organic HAP emission reduction for the controlled coating operation during the month applies the emission capture system efficiency and add-on control device efficiency to the mass of organic HAP contained in the coatings and thinners that are used in the coating operation served by the emission capture system and add-on control device during each month. Except as provided in paragraph (p) of this section, for any period of time in which a deviation, including a deviation during a period of startup, shutdown, or malfunction, from an operating limit or from any CPMS requirement of the capture system or control device serving the controlled coating operation occurred, you must assume zero efficiency for the emission capture system and add-on control device. Equation 2 of this section treats the materials used during such a deviation as if they were used on an uncontrolled coating operation for the time period of the deviation.

$$H_{Cn} = (A_C + B_C - A_{unc} - B_{unc}) \left( \frac{CE}{100} \times \frac{DRE}{100} \right) \quad (\text{Eq. 2})$$

## SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

Where:

$H_{Cn}$  = Mass of organic HAP emission reduction, excluding all periods of time in which a deviation, including a deviation during a period of startup, shutdown, or malfunction, from an operating limit or from any CPMS requirement for the capture system or control device serving the controlled coating operation occurred, for the controlled coating operation during the month, kg.

$A_C$  = Total mass of organic HAP in the coatings used in the controlled coating operation during the month, kg, as calculated in Equation 2A of this section.

$B_C$  = Total mass of organic HAP in the thinners used in the controlled coating operation during the month, kg, as calculated in Equation 2B of this section.

$A_{unc}$  = Total mass of organic HAP in the coatings used during all periods of time in which a deviation, including a deviation during a period of startup, shutdown, or malfunction, from an operating limit or from any CPMS requirement for the capture system or control device serving the controlled coating operation occurred for the controlled coating operation during the month, kg, as calculated in Equation 2C of this section.

$B_{unc}$  = Total mass of organic HAP in the thinners used during all periods of time in which a deviation, including a deviation during a period of startup, shutdown, or malfunction, from an operating limit from any CPMS requirement for the capture system or control device serving the controlled coating operation occurred for the controlled coating operation during the month, kg, as calculated in Equation 2D of this section.

CE = Capture efficiency of the emission capture system vented to the add-on control device, percent. Use the test methods and procedures specified in §§ 63.3164 and 63.3165 to measure and record capture efficiency.

DRE = Organic HAP destruction or removal efficiency of the add-on control device, percent. Use the test methods and procedures in §§63.3164 and 63.3166 to measure and record the organic HAP destruction or removal efficiency.

- (1) Calculate the mass of organic HAP in the coatings used in the controlled coating operation, kg, using Equation 2A of this section.

$$A_C = \sum_{i=1}^m (Vol_{c,i})(D_{c,i})(W_{c,i}) \quad (\text{Eq. 2A})$$

Where:

$A_C$  = Total mass of organic HAP in the coatings used in the controlled coating operation during the month, kg.

$Vol_{c,i}$  = Total volume of coating, i, used during the month, liters.

$D_{c,i}$  = Density of coating, i, kg per liter.

$W_{c,i}$  = Mass fraction of organic HAP in coating, i, kg per kg.

m = Number of different coating used.

- (2) Calculate the mass of organic HAP in the thinners used in the controlled coating operation, kg, using Equation 2B of this section.



## SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

$$B_C = \sum_{j=1}^n (Vol_{t,j})(D_{t,j})(W_{t,j}) \quad (\text{Eq. 2B})$$

Where:

$B_C$  = Total mass of organic HAP in the thinners used in the controlled coating operation during the month, kg.

$Vol_{t,j}$  = Total volume of thinner, j, used during the month, liters.

$D_{t,j}$  = Density of thinner, j, kg per liter.

$W_{t,j}$  = Mass fraction of organic HAP in thinner, j, kg per kg.

n = Number of different thinners used.

- (3) Calculate the mass of organic HAP in the coatings used in the controlled coating operation during deviations specified in § 63.3163(c) and (d), using Equation 2C of this section:

$$A_{unc} = \sum_{i=1}^m (VOLD_i)(D_i)(W_i) \quad (\text{Eq. 2C})$$

Where:

$A_{unc}$  = Total mass of organic HAP in the coatings used during all periods of time in which a deviation, including a deviation during a period of startup, shutdown, or malfunction, from an operating limit or from any CPMS requirement for the capture system or control device serving the controlled coating operation occurred for the controlled coating operation during the month, kg.

$VOLD_i$  = Total volume of coating, i, used in the controlled coating operation during deviations, liters.

$D_i$  = Density of coating, i, kg per liter.

$W_i$  = Mass fraction of organic HAP in coating, i, kg organic HAP per kg coating.

m = Number of different coatings.

- (4) Calculate the mass of organic HAP in the thinners used in the controlled coating operation during deviations specified in § 63.3163(c) and (d), using Equation 2D of this section:

$$B_{unc} = \sum_{j=1}^n (VOLD_j)(D_j)(W_j) \quad (\text{Eq. 2D})$$

Where:

$B_{unc}$  = Total mass of organic HAP in the thinners used during all periods of time in which a deviation, including a deviation during a period of startup, shutdown, or malfunction, from an operating limit or from any CPMS requirement for the capture system or control device serving the controlled coating operation occurred for the controlled coating operation during the month, kg.

$VOLD_j$  = Total volume of thinner, j, used in the controlled coating operation during deviations, liters.

$D_j$  = Density of thinner, j, kg per liter.

$W_j$  = Mass fraction of organic HAP in thinner, j, kg organic HAP per kg coating.

n = Number of different thinners.

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

(k) *Calculate the organic HAP emission reduction for each controlled coating operation using liquid-liquid material balances. – This subsection is omitted.*

(l) *Calculate the total volume of coating solids deposited.* Determine the total volume of coating solids deposited, liters, in the combined electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c) using Equation 5 of this section:

$$V_{sdep} = \sum_{i=1}^m (Vol_{c,i}) (V_{s,i}) (TE_{c,i}) / 100 \quad (\text{Eq. 5})$$

Where:

$V_{sdep}$  = Total volume of coating solids deposited during the month, liters.

$Vol_{c,i}$  = Total volume of coating, i, used during the month, liters.

$V_{s,i}$  = Volume fraction of coating solids for coating, i, liter solids per liter coating, determined according to § 63.3161(f).

$TE_{c,i}$  = Transfer efficiency of coating, i, determined according to § 63.3161(g), expressed as a decimal, for example 60 percent must be expressed as 0.60.

m = Number of coatings used during the month.

(m) *Calculate the mass of organic HAP emissions for each month.* Determine the mass of organic HAP emissions, kg, during each month, using Equation 6 of this section.

$$H_{HAP} = H_{BC} - \sum_{i=1}^q (H_{Cn,i}) - \sum_{j=1}^r (H_{CSR,j}) - \sum_{k=1}^q \sum_{m=1}^{Sk} (H_{DEV,k,m}) \quad (\text{Eq. 6})$$

Where:

$H_{HAP}$  = Total mass of organic HAP emissions for the month, kg.

$H_{BC}$  = Total mass of organic HAP emissions before add-on controls from all the coatings and thinners used during the month, kg, determined according to paragraph (h) of this section.

$H_{Cn,i}$  = Total mass of organic HAP emission reduction for controlled coating operation, i, not using a liquid-liquid material balance, excluding all periods of time in which a deviation, including a deviation during a period of startup, shutdown, or malfunction, from an operating limit or from any CPMS requirement for the capture system or control device serving the controlled coating operation occurred, for the controlled coating operation during the month, from Equation 2 of this section.

$H_{CSR,j}$  = Total mass of organic HAP emission reduction for coating operation, j, controlled by a solvent recovery system using a liquid-liquid material balance, during the month, kg, from Equation 4 of this section.

$H_{DEV,k,m}$  = Mass of organic HAP emission reduction, based on the capture system and control device efficiency approved under paragraph (p) of this section for period of deviation, m, for controlled coating operation, k, kg, as determined using Equation 8 of this section.

q = Number of controlled coating operations not using a liquid-liquid material balance.

r = Number of coating operations controlled by a solvent recovery system using a liquid-liquid material balance.

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

$S_k$  = Number of periods of deviation in the month for which non-zero capture and control device efficiencies have been approved for controlled coating operation, k.

- (n) *Calculate the organic HAP emission rate for the month.* Determine the organic HAP emission rate for the month, kg organic HAP per liter coating solids deposited, using Equation 7 of this section:

$$H_{rate} = (H_{HAP}) / (V_{sdep}) \quad (\text{Eq. 7})$$

Where:

$H_{rate}$  = Organic HAP emission rate for the month compliance period, kg organic HAP per liter coating solids deposited.

$H_{HAP}$  = Mass of organic HAP emissions for the month, kg, determined according to Equation 6 of this section.

$V_{sdep}$  = Total volume of coating solids deposited during the month, liters, from Equation 5 of this section.

- (o) *Compliance demonstration.* To demonstrate initial compliance, the organic HAP emissions from the combined electrodeposition primer, primer-surfacer, topcoat, final repair, glass bonding primer, and glass bonding adhesive operations plus all coatings and thinners, except for deadener materials and for adhesive and sealer materials that are not components of glass bonding systems, used in coating operations added to the affected source pursuant to § 63.3082(c) must be less than or equal to the applicable emission limitation in § 63.3090(a) or § 63.3091(a). You must keep all records as required by §§ 63.3130 and 63.3131. As part of the Notification of Compliance Status required by § 63.3110, you must submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the initial compliance period because the organic HAP emission rate was less than or equal to the applicable emission limit in § 63.3090(a) or § 63.3091(a) and you achieved the operating limits required by § 63.3093 and the work practice standards required by § 63.3094.
- (p) You may request approval from the Cabinet to use non-zero capture efficiencies and add-on control device efficiencies for any period of time in which a deviation, including a deviation during a period of startup, shutdown, or malfunction, from an operating limit or from any CPMS requirement for the capture system or add-on control device serving a controlled coating operation occurred.
- (1) If you have manually collected parameter data indicating that a capture system or add-on control device was operating normally during a CPMS malfunction, a CPMS out-of-control period, or associated repair, then these data may be used to support and document your request to use the normal capture efficiency or add-on control device efficiency for that period of deviation.

## SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

- (2) If you have data indicating the actual performance of a capture system or add-on control device (e.g., capture efficiency measured at a reduced flow rate or add-on control device efficiency measured at a reduced thermal oxidizer temperature) during a deviation, including a deviation during a period of startup, shutdown, or malfunction, from an operating limit or from any CPMS requirement for the capture system or add-on control device serving a controlled coating operation, then these data may be used to support and document your request to use these values for that period of deviation.
- (3) The organic HAP emission reduction achieved during each period of deviation, including a deviation during a period of startup, shutdown, or malfunction, from an operating limit or from any CPMS requirement for the capture system or add-on control device serving a controlled coating operation for which the Division has approved the use of non-zero capture efficiency and add-on control device efficiency values is calculated using Equation 8 of this section.

$$H_{DEV} = (A_{DEV} + B_{DEV}) \left( \frac{CE_{DEV}}{100} \right) \left( \frac{DRE_{DEV}}{100} \right) \quad (\text{Eq. 8})$$

Where:

$H_{DEV}$  = Mass of organic HAP emission reduction achieved during a period of deviation for the controlled coating operation, kg.

$A_{DEV}$  = Total mass of organic HAP in the coatings used in the controlled coating operation during the period of deviation, kg, as calculated in Equation 8A of this section.

$B_{DEV}$  = Total mass of organic HAP in the thinners used in the controlled coating operation during the period of deviation, kg, as calculated in Equation 8B of this section.

$CE_{DEV}$  = Capture efficiency of the emission capture system vented to the add-on control device, approved for the period of deviation, percent.

$DRE_{DEV}$  = Organic HAP destruction or removal efficiency of the add-on control device approved for the period of deviation, percent.

- (4) Calculate the total mass of organic HAP in the coatings used in the controlled coating operation during the period of deviation using equation 8A of this section:

$$A_{DEV} = \sum_{i=1}^m (VOL_{CDEV,i}) (D_{c,i}) (W_{c,i}) \quad (\text{Eq. 8A})$$

Where:

$A_{DEV}$  = Total mass of organic HAP in the coatings used in the controlled coating operation during the period of deviation, kg.

$VOL_{CDEV,i}$  = total volume of coating, i, used in the controlled coating operation during the period of deviation, liters.

$D_{c,i}$  = Density of coating, i, kg per liter.

$W_{c,i}$  = Mass fraction of organic HAP in coating, i, kg per kg.

m = Number of different coatings used.

- (5) Calculate the total mass of organic HAP in the thinners used in the controlled coating operation during the period of deviation using equation 8B of this section:

$$B_{DEV} = \sum_{j=1}^n (VOL_{TDEV,j}) (D_{t,j}) (W_{t,j}) \quad (\text{Eq. 8B})$$

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

Where:

$B_{DEV}$  = Total mass of organic HAP in the thinners used in the controlled coating operation during the period of deviation, kg.

$VOL_{TDEV,j}$  = Total volume of thinner, j, used in the controlled coating operation during the period of deviation, liters.

$D_{t,j}$  = Density of thinner, j, kg per liter.

$W_{t,j}$  = Mass fraction of organic HAP in thinner, j, kg per kg.

n = Number of different thinners used.

§ 63.3162 [Reserved]

§ 63.3163 How do I demonstrate continuous compliance with the emission limitations?

- (a) To demonstrate continuous compliance with the applicable emission limit in § 63.3090(a) or § 63.3091(a), the organic HAP emission rate for each compliance period, determined according to the procedures in § 63.3161, must be equal to or less than the applicable emission limit in § 63.3090(a) or § 63.3091(a). A compliance period consists of 1 month. Each month after the end of the initial compliance period described in § 63.3160 is a compliance period consisting of that month. You must perform calculations in § 63.3161 on a monthly basis.
- (b) If the organic HAP emission rate for any 1 month compliance period exceeded the applicable emission limit in § 63.3090(a) or § 63.3091(a), this is a deviation from the emission limitation for that compliance period and must be reported as specified in §§ 63.3110(c)(6) and 63.3120(a)(6).
- (c) You must demonstrate continuous compliance with each operating limit required by § 63.3093 that applies to you, as specified in Table 1 to this subpart.
  - (1) If an operating parameter is out of the allowed range specified in Table 1 to this subpart, this is a deviation from the operating limit that must be reported as specified in §§ 63.3110(c)(6) and 63.3120(a)(6).
  - (2) If an operating parameter deviates from the operating limit specified in Table 1 to this subpart, then you must assume that the emission capture system and add-on control device were achieving zero efficiency during the time period of the deviation except as provided in § 63.3161(p).
- (d) You must meet the requirements for bypass lines in § 63.3168(b) for control devices other than solvent recovery systems for which you conduct liquid-liquid material balances. If any bypass line is opened and emissions are diverted to the atmosphere when the coating operation is running, this is a deviation that must be reported as specified in §§ 63.3110(c)(6) and 63.3120(a)(6). For the purposes of completing the compliance calculations specified in § 63.3161(k), you must assume that the emission capture system and add-on control device were achieving zero efficiency during the time period of the deviation.
- (e) You must demonstrate continuous compliance with the work practice standards in § 63.3094. If you did not develop a work practice plan, if you did not implement the plan, or if you did not keep the records required by § 63.3130(n), this is a deviation from the work practice standards that must be reported as specified in §§ 63.3110(c)(6) and 63.3120(a)(6).

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

- (f) If there were no deviations from the emission limitations, submit a statement as part of the semiannual compliance report that you were in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in § 63.3090(a) or § 63.3091(a), and you achieved the operating limits required by § 63.3093 and the work practice standards required by § 63.3094 during each compliance period.
- (g) During periods of startup, shutdown, or malfunction of the emission capture system, add-on control device, or coating operation that may affect emission capture or control device efficiency, you must operate in accordance with the SSMP required by § 63.3100(f).
- (h) Consistent with §§ 63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction of the emission capture system, add-on control device, or coating operation that may affect emission capture or control device efficiency are not violations if you demonstrate to the Division's satisfaction that you were operating in accordance with the SSMP. The Cabinet will determine whether deviations that occur during a period you identify as a startup, shutdown, or malfunction are violations according to the provisions in § 63.6(e).
- (i) [Reserved]
- (j) You must maintain records as specified in §§ 63.3130 and 63.3131.

§ 63.3164 What are the general requirements for performance tests? – *This section is omitted.*

§ 63.3165 How do I determine the emission capture system efficiency? – *This section is omitted.*

§ 63.3166 How do I determine the add-on control device emission destruction or removal efficiency? – *This section is omitted.*

§ 63.3167 How do I establish the add-on control device operating limits during the performance test? – *This section is omitted.*

§ 63.3168 What are the requirements for continuous parameter monitoring system installation, operation, and maintenance?

- (a) *General.* You must install, operate, and maintain each CPMS specified in paragraphs (c), (e), (f), and (g) of this section according to paragraphs (a) (1) through (6) of this section. You must install, operate, and maintain each CPMS specified in paragraphs (b) and (d) of this section according to paragraphs (a) (3) through (5) of this section.
- (1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. You must have a minimum of four equally-spaced successive cycles of CPMS operation in 1 hour.
- (2) You must determine the average of all recorded readings for each successive 3-hour period of the emission capture system and add-on control device operation.
- (3) You must record the results of each inspection, calibration, and validation check of the CPMS.
- (4) You must maintain the CPMS at all times and have available necessary parts for routine repairs of the monitoring equipment.
- (5) You must operate the CPMS and collect emission capture system and add-on control device parameter data at all times that a controlled coating operation is operating, except during monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, if applicable, calibration checks and required zero and span adjustments).

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

- (6) You must not use emission capture system or add-on control device parameter data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required quality assurance or control activities when calculating data averages. You must use all data collected during all other periods in calculating the data averages for determining compliance with the emission capture system and add-on control device operating limits.
- (7) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the CPMS to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. Any period for which the monitoring system is out of control and data are not available for required calculations is a deviation from the monitoring requirements.
- (b) *Capture system bypass line.* You must meet the requirements of paragraphs (b)(1) and (2) of this section for each emission capture system that contains bypass lines that could divert emissions away from the add-on control device to the atmosphere.
- (1) You must monitor or secure the valve or closure mechanism controlling the bypass line in a nondiverting position in such a way that the valve or closure mechanism cannot be opened without creating a record that the valve was opened. The method used to monitor or secure the valve or closure mechanism must meet one of the requirements specified in paragraphs (b)(1)(i) through (iv) of this section.
  - (i) *Flow control position indicator.* Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow control position indicator that takes a reading at least once every 15 minutes and provides a record indicating whether the emissions are directed to the add-on control device or diverted from the add-on control device. The time of occurrence and flow control position must be recorded, as well as every time the flow direction is changed. The flow control position indicator must be installed at the entrance to any bypass line that could divert the emissions away from the add-on control device to the atmosphere.
  - (ii) *Car-seal or lock-and-key valve closures.* Secure any bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. You must visually inspect the seal or closure mechanism at least once every month to ensure that the valve is maintained in the closed position, and the emissions are not diverted away from the add-on control device to the atmosphere.
  - (iii) *Valve closure monitoring.* Ensure that any bypass line valve is in the closed (nondiverting) position through monitoring of valve position at least once every 15 minutes. You must inspect the monitoring system at least once every other month to verify that the monitor will indicate valve position.
  - (iv) *Automatic shutdown system.* Use an automatic shutdown system in which the coating operation is stopped when flow is diverted by the bypass line away from the add-on control device to the atmosphere when the coating operation is running. You must inspect the automatic shutdown system at least once every other month to verify that it will detect diversions of flow and shut down the coating operation.
- (2) If any bypass line is opened, you must include a description of why the bypass line was opened and the length of time it remained open in the semiannual compliance reports required in § 63.3120.
- (c) Thermal oxidizers and catalytic oxidizers. If you are using a thermal oxidizer or catalytic oxidizer as an add-on control device (including those used to treat desorbed concentrate streams from concentrators or carbon adsorbers), you must comply with the requirements in paragraphs (c)(1) through (3) of this section:

**SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

- (1) For a thermal oxidizer, install a gas temperature monitor in the firebox of the thermal oxidizer or in the duct immediately downstream of the firebox before any substantial heat exchange occurs.
- (2) For a catalytic oxidizer, install a gas temperature monitor upstream of the catalyst bed. If you establish the operating parameters for a catalytic oxidizer under § 63.3167(b)(1) through (3), you must also install a gas temperature monitor downstream of the catalyst bed. The temperature monitors must be in the gas stream immediately before and after the catalyst bed to measure the temperature difference across the bed. If you establish the operating parameters for a catalytic oxidizer under § 63.3167(b)(4) through (6), you need not install a gas temperature monitor downstream of the catalyst bed.
- (3) For all thermal oxidizers and catalytic oxidizers, you must meet the requirements in paragraphs (a)(1) through (6) and (c)(3)(i) through (vii) of this section for each gas temperature monitoring device.
  - (i) Locate the temperature sensor in a position that provides a representative temperature.
  - (ii) Use a temperature sensor with a measurement sensitivity of 4 degrees Fahrenheit or 0.75 percent of the temperature value, whichever is larger.
  - (iii) Shield the temperature sensor system from electromagnetic interference and chemical contaminants.
  - (iv) If a gas temperature chart recorder is used, it must have a measurement sensitivity in the minor division of at least 20 degrees Fahrenheit.
  - (v) Perform an electronic calibration at least semiannually according to the procedures in the manufacturer's owners manual. Following the electronic calibration, you must conduct a temperature sensor validation check in which a second or redundant temperature sensor placed nearby the process temperature sensor must yield a reading within 30 degrees Fahrenheit of the process temperature sensor reading.
  - (vi) Conduct calibration and validation checks any time the sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor.
  - (vii) At least monthly, inspect components for integrity and electrical connections for continuity, oxidation, and galvanic corrosion.
- (d) *Regenerative carbon adsorbers. – This subsection is omitted.*
- (e) *Condensers. – This subsection is omitted.*
- (f) *Concentrators.* If you are using a concentrator, such as a zeolite wheel or rotary carbon bed concentrator, you must install a temperature monitor in the desorption gas stream. The temperature monitor must meet the requirements in paragraphs (a)(1) through (6) and (c)(3) of this section.
- (g) *Emission capture systems.* The capture system monitoring system must comply with the applicable requirements in paragraphs (g)(1) and (2) of this section.
  - (1) For each flow measurement device, you must meet the requirements in paragraphs (a)(1) through (6) and (g)(1)(i) through (iv) of this section.
    - (i) Locate a flow sensor in a position that provides a representative flow measurement in the duct from each capture device in the emission capture system to the add-on control device.
    - (ii) Reduce swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.
    - (iii) Conduct a flow sensor calibration check at least semiannually.
    - (iv) At least monthly, inspect components for integrity, electrical connections for continuity, and mechanical connections for leakage.



## **SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)**

(2) - *This subsection is omitted.*

### **COMPLIANCE REQUIREMENTS FOR THE COMBINED PRIMER-SURFACER, TOPCOAT, FINAL REPAIR, GLASS BONDING PRIMER, AND GLASS BONDING ADHESIVE EMISSION LIMITATIONS AND THE SEPARATE ELECTRODEPOSITION PRIMER EMISSION LIMITATIONS**

§ 63.3170 By what date must I conduct performance tests and other initial compliance demonstrations? – *This section is omitted.*

§ 63.3171 How do I demonstrate initial compliance? – *This section is omitted.*

§ 63.3172 [Reserved]

§ 63.3173 How do I demonstrate continuous compliance with the emission limitations? – *This section is omitted.*

### **OTHER REQUIREMENTS AND INFORMATION**

§ 63.3175 Who implements and enforces this subpart? – *This section is omitted.*

§ 63.3176 What definitions apply to this subpart? – *This section is omitted.*

### **TABLES TO SUBPART IIII OF PART 63**

If you are required to comply with operating limits by § 63.3093, you must comply with the applicable operating limits in the following table:

*Table 1 – Operating Limits for Capture Systems and Add-On Control Devices - is not included in the permit; refer to 40 CFR 63, Subpart IIII.*

You must comply with the applicable General Provisions requirements according to the following table:

*Table 2 – Applicability of General Provisions – is not included in the permit; refer to 40 CFR 63, Subpart IIII.*

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data:

*Table 3 – Default Organic HAP Mass Fraction for Solvents and Solvent Blends – is not included in the permit; refer to 40 CFR 63, Subpart IIII.*

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data:

*Table 4 – Default Organic HAP Mass Fraction for Petroleum Solvent Groups – is not included in the permit; refer to 40 CFR 63, Subpart IIII.*

### **APPENDIX A TO SUBPART IIII OF PART 63 – DETERMINATION OF CAPTURE EFFICIENCY OF AUTOMOBILE AND LIGHT-DUTY TRUCK SPRAY BOOTH EMISSIONS FROM SOLVENT-BORNE COATINGS USING PANEL TESTING**

*Appendix A is not listed in the permit; refer to 40 CFR 63, Subpart IIII.*

## **SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS**

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

## **SECTION F – MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS**

1. Pursuant to Section 1b-IV-1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
  - a. Date, place as defined in this permit, and time of sampling or measurements;
  - b. Analyses performance dates;
  - c. Company or entity that performed analyses;
  - d. Analytical techniques or methods used;
  - e. Analyses results; and
  - f. Operating conditions during time of sampling or measurement.
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b-IV-2 and 1a-8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
  - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
  - b. To access and copy any records required by the permit;
  - c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
5. Summary reports of any monitoring required by this permit shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Sections 1b-V-1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

## **SECTION F – MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)**

6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. If continuous emission and opacity monitors are required by regulation or this permit, data shall be reported in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All deviations from permit requirements shall be clearly identified in the reports.
7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
  - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
  - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.
8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7 above) to the Regional Office listed on the front of this permit within 30 days. Deviations from permit requirements, including those previously reported under F.7 above, shall be included in the semiannual report required by F.6 [Sections 1b-V, 3 and 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
  - a. Identification of the term or condition;
  - b. Compliance status of each term or condition of the permit;
  - c. Whether compliance was continuous or intermittent;
  - d. The method used for determining the compliance status for the source, currently and over the reporting period.
  - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

**SECTION F – MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)**

- f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality  
Frankfort Regional Office  
643 Teton Trail, Suite B  
Frankfort, KY 40601-1758

U.S. EPA Region IV  
Air Enforcement Branch  
Atlanta Federal Center  
61 Forsyth St.  
Atlanta, GA 30303-8960

Division for Air Quality  
Central Files  
200 Fair Oaks Lane, 1<sup>st</sup> Floor  
Frankfort, KY 40601

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.

## SECTION G – GENERAL PROVISIONS

### 1. General Compliance Requirements

- a. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 Section 3(1)(b) and a violation of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act). Noncompliance with this permit is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a-3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020 Section 26].
- b. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a-6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- c. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
  - (1) If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
  - (2) The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
  - (3) The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;
  - (4) New requirements become applicable to a source subject to the Acid Rain Program.

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

- d. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the conditions of this permit [Sections 1a- 7 and 8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- e. Emission units described in this permit shall demonstrate compliance with applicable requirements if requested by the Division [401 KAR 52:020 Section 3(1)(c)].

## SECTION G – GENERAL PROVISIONS (CONTINUED)

- f. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].
- g. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a-14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- h. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a-4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- i. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens. [Section 1a-15-b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- j. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a-10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- k. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3) 2.].
- l. This permit does not convey property rights or exclusive privileges [Section 1a-9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].
- m. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Cabinet or any other federal, state, or local agency.
- n. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3) 4.].
- o. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3) 1.].

## **SECTION G – GENERAL PROVISIONS (CONTINUED)**

- p. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.
- q. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of this permit shall be considered compliance with:
  - (1) Applicable requirements that are included and specifically identified in the permit and
  - (2) Non-applicable requirements expressly identified in this permit.

### **2. Permit Expiration and Reapplication Requirements**

- a. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].
- b. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:020 Section 8(2)].

### **3. Permit Revisions**

- a. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).
- b. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.



## **SECTION G – GENERAL PROVISIONS (CONTINUED)**

### **4. Construction, Start-Up, and Initial Compliance Demonstration Requirements**

No construction authorized by this permit.

### **5. Testing Requirements**

- a. Pursuant to 401 KAR 50:045 Section 2, a source required to conduct a performance test shall submit a completed Compliance Test Protocol form, DEP form 6028, or a test protocol a source has developed for submission to other regulatory agencies, in a format approved by the cabinet, to the Division's Frankfort Central Office a minimum of sixty (60) days prior to the scheduled test date. Pursuant to 401 KAR 50:045, Section 7, the Division shall be notified of the actual test date at least Thirty (30) days prior to the test.
- b. Pursuant to 401 KAR 50:045 Section 5, in order to demonstrate that a source is capable of complying with a standard at all times, any required performance test shall be conducted under normal conditions that are representative of the source's operations and create the highest rate of emissions. If [When] the maximum production rate represents a source's highest emissions rate and a performance test is conducted at less than the maximum production rate, a source shall be limited to a production rate of no greater than 110 percent of the average production rate during the performance tests. If and when the facility is capable of operation at the rate specified in the application, the source may retest to demonstrate compliance at the new production rate. The Division for Air Quality may waive these requirements on a case-by-case basis if the source demonstrates to the Division's satisfaction that the source is in compliance with all applicable requirements.
- c. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.

### **6. Acid Rain Program Requirements**

- a. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.
- b. The permittee shall comply with all applicable requirements and conditions of the Acid Rain Permit and the Phase II permit application (including the Phase II NO<sub>x</sub> compliance plan and averaging plan, if applicable) incorporated into the Title V permit issued for this source. The source shall also comply with all requirements of any revised or future acid rain permit(s) issued to this source.

## **SECTION G – GENERAL PROVISIONS (CONTINUED)**

### **7. Emergency Provisions**

- a. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
  - (1) An emergency occurred and the permittee can identify the cause of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
  - (4) Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
  - (5) This requirement does not relieve the source of other local, state or federal notification requirements.
- b. Emergency conditions listed in General Condition G.7.a above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].
- c. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

### **8. Ozone Depleting Substances**

- a. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
  - (1) Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
  - (2) Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
  - (3) Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
  - (4) Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
  - (5) Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
  - (6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

**SECTION G – GENERAL PROVISIONS (CONTINUED)**

- b. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditioners*.

9. Risk Management Provisions

- a. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

RMP Reporting Center  
P.O. Box 1515  
Lanham-Seabrook, MD 20703-1515.

- b. If requested, submit additional relevant information to the Division or the U.S. EPA.

**SECTION H – ALTERNATE OPERATING SCENARIOS**

N/A

**SECTION I – COMPLIANCE SCHEDULE**

N/A